

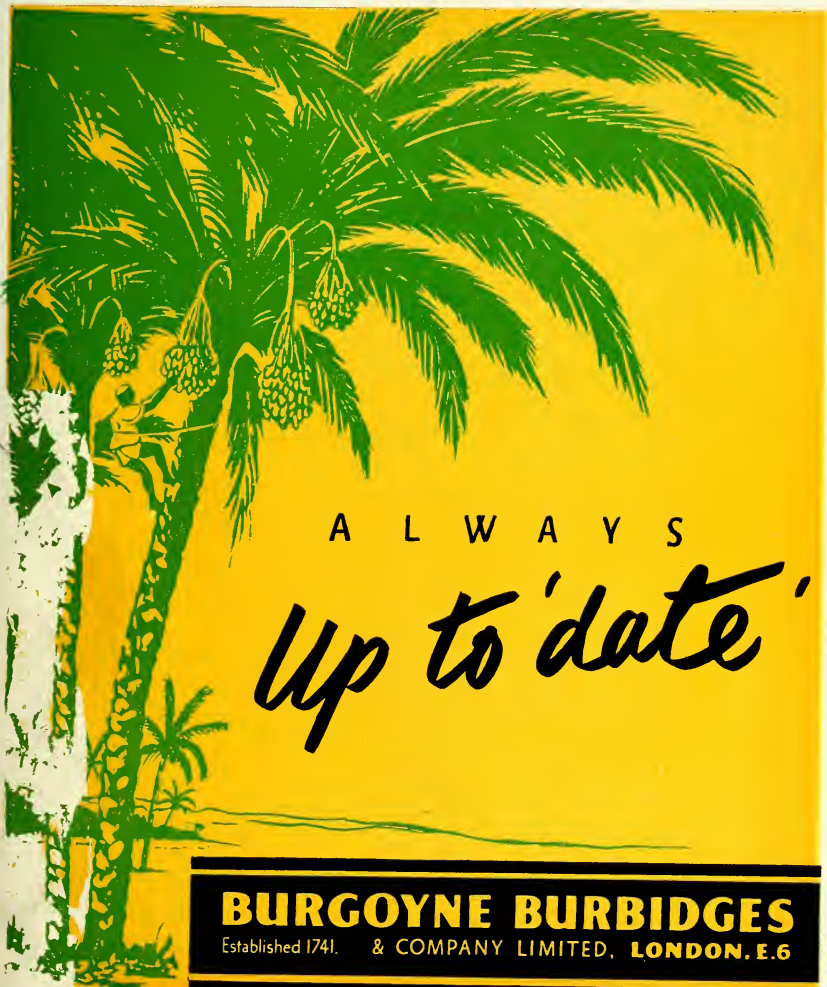
W. H. G. M. S. H.



The **CHEMIST AND DRUGGIST**

for RETAILER — WHOLESALE — MANUFACTURER

APRIL 15, 1950



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The **CHEMIST AND DRUGGIST**

for RETAILER—WHOLESALE—MANUFACTURER

APRIL 15, 1950

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NEWS OF THE WEEK

Surgical Dressings Prices Increased.—The Surgical Dressings Manufacturers' Association has issued a list of new prices for surgical dressings in operation from April 17. Prices have been advanced in varying degrees as a result of increased costs of raw cotton and yarn.

Chemists' Defence Association.—The forty-ninth annual report of the Chemists' Defence Association, Ltd., recently published, records a substantial increase in the cost of provision of analysis for members as a result of the reintroduction of the scheme for testing drugs under the National Health Service.

Tests on Caries Prevention.—Over 6,000 school children throughout England are to take part in a test of the effectiveness of a fluoride treatment in protecting children's teeth against decay under plans made recently by the Ministry of Education. The amount of dental decay in areas where the drinking water contains a small quantity of fluoride is known to be less than in other areas, and there are good grounds for believing that a protective

effect is produced by wetting the teeth with a solution containing fluoride.

Time Limits for Claims.—The Railway Executive has decided that from June 1 the statutory time limits for lodging complaints and claims in respect of goods which have suffered partial loss or damage in transit are to be as follows:—The British Railways to be advised within three days of termination of transit, and a written submission of claim made within seven days after termination of transit.

Safety Conference Reports.—Issued on March 14, the proceedings of the first conference on Chemical Works Safety (held at Harrogate in October 1948) include papers on "Industrial Hazards," by Dr. J. Gwynne Morgan; "Safety Aspects of Chemical Plant Design," by Mr. J. E. Braham; "Principles of Safety Organisation," by Mr. H. R. Payne; "Accident Records," by Mr. H. G. Winbolt; "Clearance Certificates," by Mr. A. G. Palmer. The proceedings of the second conference (held at Scarborough in October 1949) also now available include "Notes on the

"Toxicity of Solvents," by Dr. A. J. Amor; "Permissible Electrical Apparatus in Hazardous Atmospheres," by Mr. S. W. Richards; and "Breathing Apparatus—Installation, Maintenance and Training," by Mr. T. Senior. Copies of the reports (price 5s. each, post free) may be obtained from the Intelligence Office, Association of British Chemical Manufacturers, 166 Piccadilly, London, W.1.

Fair Prices Deputation.—A deputation from the Fair Prices Defence Committee conveyed to the President of the Board of Trade at the House of Commons on April 4 the views of the Committee on the subject of collective price-maintenance. Quoting facts and experiences relating to price-cutting and price-maintenance in various trades, the deputation endeavoured to convince the Minister that continuance of the collective system was in the best interests of consumers, and essential to the well-being of the trades and industries represented. They claimed to speak on behalf of 350,000 manufacturers, wholesalers and retailers employing over two million workers, and emphasised that the maintenance of fair wage rates and standards of living of the latter would be prejudiced if the Lloyd Jacob Committee's recommendations were adopted. Mr. Wilson promised that the representations made to him by the deputation would receive his careful attention during consideration of the action to be taken following the Lloyd Jacob report. The deputation included the chairman (Mr. H. E. Chapman, secretary of the P.A.T.A.), Mr. F. Gratwick (National Chamber of Trade), Mr. G. A. Mallinson (National Pharmaceutical Union), and Mr. E. C. Pearce (Proprietary Articles Trade Association).

Shop Workers Oppose Wage Freeze.

—The Union of Shop, Distributive and Allied Workers at their annual delegate meeting in Bridlington on April 10 defeated a resolution from its executive urging co-operation with other unions in a co-ordinated wage policy, condemned its executive for supporting the wage restraint policy of the Trades Union Congress General Council in January, and demanded an immediate campaign for wage increases for its own members. A report from the executive on a planned distributive economy was adopted at a meeting on April 11. It called for action of a fundamental kind to remedy the high costs of distribution, in which, it was said, too many workers were engaged. The report favoured

a registration and licensing system of wholesalers. Overabundance of shops, stated, caused great waste in the retail trade and shop registration and licensing were essential new concerns being restricted. This would put a monopoly value on existing shops and a special tax should be levied on the new value. The Co-operative movement had nothing to fear from licensing, and local authorities should appoint licensing committees according to Government regulations. A composite proposition described the nationalisation of distribution as the only solution and asked the executive to appoint a commission to examine the question. The president promised that the executive would consider it and report back.

Purchases by Overseas Visitors.

—It has been decided, as an experimental concession, to extend the present scheme under which United States and Canadian visitors are able to buy certain classes of article across the counter free of tax to all goods which are liable to purchase tax. If the goods sold are from tax stock (that is, tax has been charged on the goods before they are sold to the visitor), an allowance may be claimed (on form P.T. 36) from the local Collector of Customs and Excise as follows:—For goods chargeable at 33½ per cent., one-sixth of the tax-inclusive retail selling price; 66½ per cent., one-quarter of the i.r.p.; and 100 per cent., one-third i.r.p. The visitor should therefore be charged five-sixths, three-quarters, or two-thirds of the normal retail selling price, as the case may be. In such cases, the bill and copy must show (i) the tax-inclusive retail selling price; (ii) the tax allowance deducted, and (iii) the resulting actual price charged to the visitor. The following words must invariably be added to the description of the goods on the copy bill only:—"Already taxed at per cent. Claims, with the copy bills attached, should be submitted at monthly intervals. No exceptions can be made on the ground that the allowance calculated may not exactly equal the tax borne by the goods. All bills made out in connection with the scheme should bear a full description of the goods. The concession whereby tax relief is allowed on goods shipped as passengers' baggage under the Personal Import Scheme will in future apply only where the parcel shipped is of a retail value, tax-exclusive, of £10 or more.

LOCAL NEWS

Ely Chemists Make a Presentation.—

At a dinner organised by the Isle of Ely Pharmaceutical Committee, Mr. A. R. Edwards was thanked for his services to Isle of Ely chemists during the past thirty-four years, principally as clerk to the Isle of Ely Insurance Committee. A cheque was presented by Mr. J. A. Gardiner, Ely (chairman of the Committee), on behalf of all the chemists in the county, who paid tribute to his long and conscientious service and the manner in which he had looked after the interests of the chemists.

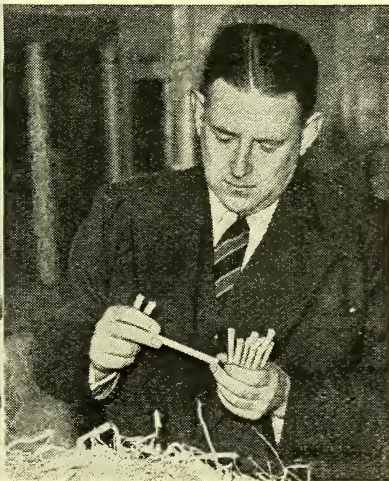
Shropshire Branch Hears Council Candidate.—With the Pharmaceutical Council election close at hand, members of the Shropshire and Montgomeryshire Branch of the Society invited Mr. J. L. Goulder, Cheltenham (a prospective candidate) to address them at a recent meeting. The problem of "blind voting" at election times had been a source of concern to all members of the Branch, who felt that personal contact with a candidate was most desirable. After a discussion it was resolved to support Mr. Goulder at the election.

Dundee Annual Meeting.—At the annual meeting of the Dundee and East and Central Scottish Branch of the Pharmaceutical Society recently, Miss E. M. Jenkins was elected *Chairman*, and Mr. J. McKiddie, Kirriemuir, *Vice-chairman*. Miss S. Fyfe and Mr. D. Wallace, M.P.S., were

elected *Joint Secretaries*. Mr. W. A. Beattie (superintendent, Glasgow Pricing Bureau) spoke on "Some Aspects of the Pharmaceutical Service," dealing with the increases in the price and variety of prescriptions, and the difficulties and delay in pricing. He gave hints on how to help the staff at the pricing office.

Exeter Branch Dinner.—Alderman W. J. Tristram (a member of the Pharmaceutical Society's Council) was guest at the annual dinner of the Exeter Branch of the Pharmaceutical Society recently, at which the branch chairman (Mr. P. McKechie Smith) presided. Dr. J. D. R. Murray (secretary, South-western Division, British Medical Association) proposed "The Pharmaceutical Society" to which Mr. Tristram replied. Mr. J. J. Leonard (vice-chairman) proposed "The Visitors" and Mr. A. G. M. Madge (chairman, Plymouth Branch) responded, suggesting that all west-country delegates to the Branch Representatives meeting in London should get together to formulate an agreed policy on the resolutions submitted.

Cardiff Seeks Pharmacology Department.—Speaking at the second annual dinner of the South Wales Branch of the Guild of Public Pharmacists at Cardiff on March 25, Professor R. St. A. Heathcote (head of the department of Materia Medica and Pharmacology, Welsh School of Medicine) expressed hopes for the early establishment of a pharmacological institute as part of the proposed new hospital



LYMPH BY AIR TO GLASGOW.—The captain of a private charter plane unloads, at Renfrew aerodrome, his cargo of vaccine lymph from Evans Medical Supplies, Ltd., Speke, Liverpool, to meet the heavy demands for vaccination made by Glasgow citizens following the recent outbreak of smallpox there. Right, Mr. W. L. Greig (managing director, New Apothecaries Co., Ltd.) examines the consignment. Girl employees of Evans Biological Institute, Runcorn, Cheshire, worked overtime, on April 4, in order to ensure that a batch of 6,000 vials of vaccine was ready for dispatch on the following day.

and medical school at Cardiff. He said that, in addition to providing opportunities for the training of experts in drugs, a pharmacological institute would enable medical, pharmaceutical and dental students to come into contact with each other to the benefit of each. Mr. E. T. Griffiths (chairman, South Wales Branch, Guild of Pharmacists) presided.

Anxiety for Plymouth School.—At the meeting of the Plymouth Branch of the Pharmaceutical Society on March 16, Dr. Graymore (principal, Plymouth and Devonport Technical College) spoke on "Pharmaceutical Education." The branch chairman (Mr. A. G. Madge) presided. Dr. Graymore expressed concern at the possibility that the two-year Ph.C. course might not be any longer available at the local school of pharmacy, and emphasised the need for careful consideration by the Council of the Society if pharmacy was to be adequately served in the South-west of England. A resolution to that effect was carried unanimously by the meeting. Dr. Graymore pointed out that the local educational authorities were prepared to provide for the new two-year course by increasing accommodation, equipment and staff. A vote of thanks to the speaker was proposed by Mr. J. C. Smith and seconded by Mr. R. R. Ramsden.

Dispensing Technicians Debated.—The March meeting of the Manchester Pharmaceutical Association and Branch of the Pharmaceutical Society was organised by the Junior Branch of the Association and took the form of a debate on "Pharmaceutical Man-power." Mr. Birch said that the principle of accepting into pharmacy some lesser qualified person, such as a dispensing technician, was necessary. A standard of education and training should be laid down for these people, and having satisfied the examiners, they should be allowed to dispense, without qualified supervision, all prescriptions excepting those containing D.D.A. and Schedule IV items. Mr. H. J. Collis was also in favour of dispensing technicians. He said that 20 per cent. of prescriptions dispensed were prepacked medicines put up under a trade name and this type of dispensing did not require the attention of a pharmacist. Miss Smith, opposing, said that a high educational standard was necessary because of the responsibilities that had to be accepted by the pharmacist. The future of pharmacy would be linked with the medical profession and if they were

to uphold their status they could not allow any lessening of educational values. Mr. E. A. Thorpe also opposed the recognition of technicians. The training of technicians, he said, would mean that health centres, when ready to take over the dispensing service, would be staffed mainly by dispensing technicians. After discussion the advisability of training and employing of technicians was turned down by a large majority and the meeting was unanimous that there should be no lowering of qualification standards.

IRISH NEWS

Golfers Entertained in Dublin.—The Irish Chemists' Golfing Society were entertained to dinner recently by Aspro (Ireland), Ltd., Inchicore, Dublin. The guests were received by Mr. C. W. Chesson (marketing director) with whom was Mr. Lynch (captain of the Society) and Mr. P. Fahey (secretary). Mr. Chesson, proposing the toast of "Our Guests," extended a welcome to the golfers, and said he hoped the visit was the first of a series of visits. Mr. Lynch thanked the firm for their invitation and hospitality.

Ulster Chemists' Association.—At the monthly meeting of the executive committee of the Ulster Chemists' Association on April 4, the president (Mr. J. Caldwell) in the chair, a vote of sympathy was passed with the relatives of the late Mr. W. Esler, Belfast, and Mr. J. Macaula Downpatrick. Mr. Andrew Robinson (successor to Mr. G. R. Calvert), Main Street, Ballyclare, was elected to membership. The following (approved at a previous meeting of the Associates' Committee) were elected Associates:—*Assistants*, Misses J. H. C. and S. Gardiner; *Apprentice*, Mr. R. White. It was agreed that £5 5s. should be donated to the National Chamber of Trade Jubilee fund. Proceeds of the U.C. whist drive (£20) were passed to the Northern Ireland Chemists' Benevolent Fund. Discussion arose concerning present discounts (considered insufficient) on specialties by leading C.F. manufacturers. The president reported that a bowling tournament had been arranged for May 3. Amongst the guests at a dance organised recently by the Associates' Section were the president of the Association, (Mr. Caldwell), vice-president (Mr. C. Quinn), secretary (Miss A. E. Strachan) and the vice-president of the Pharmaceutical Society of Northern Ireland (Mr. H. V. Gamble), and secretary (Mr. W. Gorman).

TOPICAL REFLECTIONS

Transport Commission Proposals

The summary by Mr. Graham Saville of the proposals of the British Transport Commission (pp. 440-41) merits careful study. The proposals are somewhat intricate, and the demand for ready reckoners may show a sharp increase. On the one hand, for example, the Executive (with a capital E) "will perform all the services covered by the contract" with every supplier of goods, and no rebate will be allowed on any service undertaken by consignor or consignee; while on the other hand the Commission "wishes to continue the principle of making special agreements with traders to carry the whole or an agreed part of their traffic." It appears that many consignments of drugs and medicines will normally be chargeable at high rates because of lightness in weight. If the principle of enforcing premiums (as they are called) for packages weighing not more than three hundredweight is to be applied to all weighing less than a ton, the cost of medicaments will necessarily be affected. Similarly, the present "low" charges for returned empties cannot, the Commission thinks, be continued. These are points which National Health Service contractors will need to bear in mind. The grid system of calculating distances, used by the Ordnance Survey, has found favour with members of the Commission, but may turn out to be inequitable in some cases. Arrangements for conveying goods at owner's risk and for increasing limits of liability are outlined on p. 441. The Federation of British Industries and the Association of British Chambers of Commerce are no doubt examining the position.

Cod-liver-oil Seasons

The remarks of Mr. (afterwards Sir) Thomas Barclay on the Norwegian cod-liver-oil season of 1900 (p. 441) have a special interest for many of your older readers. From about the middle of February onwards, retail chemists who had a good demand for this oil used to write annually to their wholesalers for samples of and quotations for new-season's oil, and they tried to gauge the amount likely to be wanted during the next twelve months. The fishing season in the Lofoten Islands varied, of course, from year to year. Mr. Barclay told his audience at Birmingham that the season of 1900 had ended in the lowest total of catches then known. I see

in your Trade Report of March 2, 1901, that there was a recovery to some extent in that year, 978 barrels of new oil being exported from Bergen up to February 23, compared with 589 to the same date in 1900. However, the weather was unfavourable, and the total catch of cod showed only a slow increase. On March 9 your correspondent in Bergen reported that stormy weather was still an adverse factor, and that the market was rather firmer. The latest price was then 65s. a barrel, f.o.b. Bergen. The only size of barrel for cod-liver oil that I remember from that date was one of twenty-five gallons, making the market price about 2s. 7d. a gallon. In your issue of March 11 this year three sizes of barrel are listed, containing respectively 45, 25 and 5 gallons; prices are, as might be expected, much higher than in 1901. I understand that a further rise in prices has taken place.

"Chemists and Doctors"

In replying to a recent question in the House of Commons the Minister of Health, as reported (p. 435) referred to "chemists and doctors." One can only hope that the Royal Colleges of Physicians will survive the shock of this inversion of the usual order of precedence. Journalists, who speak with humility of "doctors and chemists," may well wonder how the phrase reported got into the Minister's notes. A rivalry between apothecaries and chemists and druggists came to a head in 1793-94, as narrated in Good's History. The apothecaries formed "The General Pharmaceutical Association of Great Britain," chiefly for the purpose of putting the druggists, as they called them, into a subordinate place. The apothecaries had had fair warning. In 1782 a correspondent of the "Morning Chronicle" stated that "from the ignorance of many apothecaries . . . prescriptions are commonly made up at a chemist's." Twelve years later about 200 apothecaries met in London and listened to scornful speeches about the alleged infringement of their rights by "druggists." One of the worst misdemeanours attributed to the latter was a "want of classical education" resulting in inability to translate Latin directions in prescriptions. Worse still, they had been known to disturb them. Some, not daring to interpret, had gone to the length of dispensing medicines without directions.

Xrayser

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE Minister of Food was asked by MR. R. McM. BELL on April 3 why his Department, acting through the Olive Oil Association, was selling olive oil at 25s. 3d. per gall. to wholesale buyers in this country when those buyers could buy best quality olive oil at 15s. 8d. per gall., f.o.b. at Spanish ports, and whether in the circumstances he would free the importation of olive oil from control by his Department.

MR. S. N. EVANS (Parliamentary Secretary to the Ministry of Food): My Department does not now buy or sell olive oil. The first step towards the decontrol of the olive oil trade was made in 1947, when the Ministry's stocks were taken over by the Olive Oil Importers' Association. So as to make the changeover to full private trading as smooth as possible, an undertaking was given to the Association that they should be the sole importers until stocks had been substantially reduced. The arrangement will terminate not later than the autumn of this year.

MR. BELL asked if that answer meant that, until the autumn of this year, home consumers of olive oil would have to pay 8s. per gall. above the world price? MR. EVANS replied that it was quite true that, at the moment, oil could be bought more cheaply than at the Association's price, but insurance, freight charges, duty and, of course, importers' profits had to be added to the figure mentioned in the question.

MR. HARRISON asked whether that meant that the Department themselves were much concerned about the obvious difference in price to the purchaser of olive oil abroad and in this country? Would the Ministry also tackle seriously that obvious anomaly? SIR D. ROBERTSON asked whether the Minister's reply meant that his Department in bulk buying had paid too high a price, that they had saddled importers with the stock, and that they were now protecting themselves and importers at the expense of the public.

MR. EVANS: No. I did not mean anything of the kind. We entered into an arrangement with this Association as far back as 1947. There was a good yield of olive oil last year. That, of course, has changed the market.

Commercial Vehicles

MR. N. DAVIES asked the Minister of Supply on April 3 if he was aware that

the delay in delivery of light commercial vans was now comparable in length that experienced with private cars, and whether he would consider allowing larger proportion of these vehicles to be sold on the home market. MR. G. STRAUSS replied that the country's economic position made it essential that the present rate of supply of commercial vehicles to the home market should be strictly limited.

Chemists at Ministry of Supply

MR. W. R. S. PRESCOTT asked the Minister of Labour on April 4 how many persons due for call-up for National Service had accepted employment as chemists under the Ministry of Supply, what was their average annual remuneration, and how many persons had refused the offer of such employment. MR. GEORGE ISAAC replied that forty-two men who had left the universities in 1949 and were liable for National Service had accepted positions as chemists from the Ministry of Supply and twenty-four had refused such positions. The average initial salary offered was £300 per annum.

Business Premises in Scotland

LIEUTENANT-COMMANDER HUTCHISON asked the Secretary for Scotland on April 4 what action he intended to take on the final report of the Committee of Inquiry into the Tenure of Shop and Business Premises in Scotland (see p. 469). MISS McC. HERBISON (Joint Under-Secretary) replied that the Minister was considering the report in consultation with the President of the Board of Trade, and she was not yet in a position to make any statement about it.

Restrictive Practices

MR. EMRYS ROBERTS asked the President of the Board of Trade on April 4 whether he would introduce legislation to enlarge the composition and powers of the Monopolies and Restrictive Practices Commission so as to enable it to deal effectively without delay with all the matters referred to it. MR. ARTHUR BOTTOMLEY (Secretary for Overseas Trade) replied that the Commission's staff and membership could be enlarged without further legislation, and before considering whether changes were necessary in the Commission's organisation or structure it was proposed to wait for their reports on their first investigations.

There was no reason to doubt that their existing powers were ample to enable them to obtain all the information required for the purpose of their investigations.

Answering DR. BARNETT STROSS on April 3, MR. S. N. EVANS (Parliamentary Secretary to the Ministry of Food) gave the following average composition of flours of 70 per cent. to 85 per cent. extraction rates:—

	70 per cent. extraction	85 per cent. extraction
	per oz.	per oz.
Protein ...	3.1 gm.	3.3 gm.
Fat ...	0.3 gm.	0.5 gm.
Iron ...	0.28 mgm.	0.6 mgm.
Calcium ...	4.5 mgm.	46.0 mgm.*
Phosphorus ...	26.0 mgm.	54.0 mgm.
Vitamin B ₁ (aneurin) ...	0.021 mgm.	0.082 mgm.
Riboflavin ...	0.017 mgm.	0.037 mgm.
Nicotinic acid ..	0.23 mgm.	0.57 mgm.

* Includes calcium added as creta preparata. Flour

contains a negligible quantity of vitamin A (or carotene) and no vitamin C or D.

DR. STROSS asked how much of the flour used for human consumption was bleached by means of nitrogen trichloride or other agents. MR. EVANS replied that over 90 per cent. was treated with nitrogen trichloride. Of the remainder, some was untreated and the balance was treated with any of several lesser-known flour "improvers." His information was that there was nothing detrimental to human health in the present method of treating flour. A change of technique affecting over 90 per cent. of the flour used in this country was being introduced, but it would need some time to take effect, especially as the necessary plant, and supplies of the new improver (chlorine dioxide) had to be secured from the United States.

LEGAL REPORTS

Poisons Dispensed in Pharmacist's Absence.—During the hearing of a case at Romford, Essex, court recently, in which Mr. Arthur William Daniel, M.P.S., 12 Chase Cross Road, Collier Row, Essex, was charged with contravening the Pharmacy and Poisons Act, 1933, prosecuting counsel referred to "the great shortage of qualified chemists." The solicitor for the Pharmaceutical Society, at whose instance the prosecution was brought, said that Mr. Daniel was absent at the time of the visit of an inspector of the Society. When he eventually arrived, the inspector learned that the man who had been dispensing the prescriptions meanwhile was not a qualified chemist. The solicitor said that, knowing he was going to be absent from the shop, Mr. Daniel should have instructed his staff to suspend the dispensing of poisons. For the defence, it was urged that Mr. Daniel's reputation was irreproachable. He had been a qualified chemist since 1901, and had had a shop of his own for thirty-seven years (at Collier Row for fifteen), during which time neither he nor his shop had been under the adverse notice of the authorities. He was fined a total of £20.

Trade Mark Appeal Dismissed.—In the Chancery Division, London, on April 5, Gardinol Chemical Co., Ltd., New Street, Milnsbridge, Huddersfield, appealed against a decision of the Registration of Trade Marks refusing their application to have the trade mark Lanette (registered in the name of Deutsche Hydrierwerke, A.G.) removed from the register. For the Gar-

dinol Co. it was represented that the trade mark Lanette was registered by the German company in 1930 in respect of a wax of considerable technical importance. It was largely used in the medicinal, pharmaceutical and cosmetic trades. He alleged that the German company, which prior to the 1939-45 war had consented to the Gardinol Co.'s using the trade mark, had now abandoned it, and the mark had long since become distinctive of the Gardinol company's product. Any use today of the mark by the German company would be calculated to deceive. The judge said that the object of the application was to enable the appellants to apply for the registration of the trade mark in their own name and so acquire a monopoly in the use of the word Lanette. He doubted whether the object was altogether commendable or meritorious. He thought it was extremely difficult to decide whether the registration was valid or invalid. The German company had been given notice of the appellants' application, but they had taken no steps to oppose it. The onus of proving that the registration was invalid was upon the appellants and they had failed to discharge that onus. The position of holders of German trade marks was sufficiently well known, and he could not see that any serious deception of the public could ensue. "I decide this case on the circumstances of the case and not on any ground of public policy or in consideration of how other cases may be affected," said the judge. He dismissed the appeal.

NEW COMPANIES

BUTLER & CRISPE, LTD. (P.C.).—Capital £200,000. To carry on the business of manufacturers of and dealers in pharmaceutical, chemical, veterinary, industrial and other preparations; chemists, druggists, etc. Leslie H. Crispe and Ronald P. Gower, directors. R.O.: 80 Clerkenwell Road, London, E.C.1.

REVLON EXPORT CORPORATION. Particulars filed March 27, pursuant to Section 407 of the Companies Act, 1948. Capital: 210 shares in 140 Class "A" and 70 Class "B" Common Stock of no par value. Registered in New York on April 29, 1938, to export, import, buy, sell and deal in cosmetics, nail enamel, nail polishes and kindred products, etc. Head office: New York. British address: 59 New Cavendish Street, W.1, Leonard J. Matchan, Glen Morag, Haig Avenue, Canford Cliffs, Bournemouth, is authorised to accept service of process and notices. Chas. Revson, Joseph Revson, Chas. R. Lachman and Martin E. Revson, directors.

FORTH CHEMICALS, LTD. (P.C.).—Capital £90. To carry on the business of manufacturers, refiners and distillers, dealers in styrene and styrene derivatives, plastic substances, mineral and vegetable oils, petroleum products, etc. First directors are not named. Solicitors: Linklaters & Paines, 6 Austin Friars, London, E.C. [The company has been formed by British Petroleum Chemicals, Ltd. (jointly owned by Anglo-Iranian Oil Co., Ltd., and the Distillers Co., Ltd.) and Monsanto Chemicals, Ltd., and will be concerned in the first instance with the manufacture of monomeric styrene required by the plastics industry. British Petroleum Chemicals, Ltd., is at present constructing a plant at Grangemouth, Stirlings, for the production of chemicals from petroleum].

Company News

BRITISH CHEMICALS & BIOLOGICALS, LTD.—Mr. C. G. Smith, B.A., and Mr. D. N. Walton, A.C.A., have been appointed additional directors of the company.

ENERGEN FOODS CO., LTD.—Following the retirement of Mr. Richard Maurice on March 31, Mr. William Henry Bennett has been appointed chairman and managing director of the company.

BOOTS PURE DRUG CO., LTD.—The offer of 1,280,000 5s. ordinary shares to share-

holders at 35s. per share in the proportion of one new share for every five held has been oversubscribed.

EVANS MEDICAL SUPPLIES, LTD.—The rights issue of 615,682 5s. ordinary share at 5s. 6d. per share to ordinary stockholders, in the proportion of one for one has been fully subscribed.

COOPER, McDUGALL & ROBERTSON LTD.—Consolidated net profit for 194 amounts, after taxation, to £172,816 compared with £42,760 in the previous year. Net profit of the parent company £74,434 against £92,449. Ordinary dividend is unchanged at 5 per cent.

MITCHELL COTTS & CO., LTD.—Consolidated net profit of the group to June 30, 1949, amounted to £364,946 (against £422,905, plus £100,000 from parent company's tax reserve, no longer required and £266,500 from contingencies reserve no longer required). Interim dividends on ordinary shares have been paid of 10 per cent. (the same) and 15 per cent. (the same on smaller capital), making 25 per cent. The sum of £74,058 (nil) is transferred to contingencies reserve; to general reserve, nil (£558,067); leaving £359,511 (£199,259) to carry forward.

Voluntary Liquidations

FRANCESCA (ENGLAND), LTD., cosmetic manufacturers, 9 Albemarle Street, London, W.1. Liquidator: Reginald Large address as above.

TRANSCUTAN, LTD., dealers in chemical and medical products, Sheepscar Street South, Leeds. Liquidator: Eric Robert Marshall Emsley, Atlas Chambers, Kirk Street, Leeds, 1.

WICK INDUSTRIES (CHEMISTS), LTD., manufacturing chemists, 415 Ulster Chambers, 168 Regent Street, London, W.1. Liquidator: Norman William Osborne, Finsbury Square, London, E.C.2.

BUSINESS CHANGES

MEGGESON & CO., LTD., have appointed Mr. George W. Orr, Aswing, Neidpath Road, Whitecraigs, Glasgow, as the representative in Scotland.

BARCLAY & SONS, LTD., Brighton, have appointed the following departmental supervisors, who take up their duties April 17:—Stores and transport, Mr. F. R. Hunt; clerical, Captain A. J. Pink; drugs and "ethicals," Mr. R. Firth.

BIRTH

FLETCHER.—At Elsie Inglis Maternity Hospital, Edinburgh, on March 31, Dorothy (née Edgar) the wife of Thomas Douglas Fletcher, M.P.S., 44 Ferniehill Terrace, Gilmerton, Edinburgh, of a son.

DEATHS

AGNEW.—At his home, 61 Anerley Road, Upper Norwood, London, S.E.19, on April 7. Mr. John William Walden Agnew, M.P.S., aged seventy-eight. A native of Belfast, Mr. Agnew qualified in Ireland in 1893 and later came to England. He represented Wright, Layman & Umney, Ltd., in London for some years and was also the London representative of the Dubarry Perfumery Co., Ltd., Hove. In 1929 he was registered as a chemist and druggist (in pursuance of section 4 of the Poisons and Pharmacy Act, 1908), and for the past twenty-one years had been in retail business in Upper Norwood.

BEAUCHAMP.—Recently, Mr. Frederic Crawley Beauchamp, M.P.S., 58 Hamilton Road, East Finchley, London, N.2. Mr. Beauchamp qualified in 1888.

BOWDEN.—On March 31, Mr. Francis Henry Bowden, Ph.C., 182 Broadstone Road, Heaton Chapel, Stockport, Ches. Mr. Bowden qualified as a chemist and druggist in 1887 and passed the Pharmaceutical Chemist examination in 1889.

CHALLENGER.—On March 19, Mr. Ernest James Challenger, Ph.C., Linwood, Cliffe-at-Hoo, Hoo, Kent. Mr. Challenger qualified as a chemist and druggist in 1900 and passed the Pharmaceutical Chemist examination in 1901.

GIBSON.—At Kingswood, Surrey, on March 24, Professor Charles Stanley Gibson, O.B.E., Sc.D., F.R.S., Emeritus Professor of Chemistry, University of London, at Guy's Hospital, and honorary secretary of the Chemical Society, 1924-33, aged sixty-six. He was president, 1938, of the chemistry section of the British Association.

HOGG.—On April 5, at Broxburn, West Lothian, Mr. John Hogg, M.P.S., 42 East Main Street, Broxburn formerly of Mulberry Place, Edinburgh. Mr. Hogg qualified in 1901.

TWORT.—At Camberley, Surrey, on March 20, Professor Frederick William Twort, M.R.C.S., L.R.C.P., F.R.S., aged seventy-two. Professor Twort was superintendent of the Brown Institute, Lambeth,

London, from 1909 until its destruction during the recent war, and professor of bacteriology in the faculties of medicine and science, London University. In 1915 he discovered the bacteriophage, which laid the foundation for much modern investigation of the viruses. He also produced a diagnostic vaccine that enabled John's disease of cattle to be brought under control, and carried out important work on a new method of isolating and cultivating *Mycobacterium lepræ*.

PERSONALITIES

DR. J. A. MORRISON, of the Division of Chemistry, National Research Council of Canada, arrived in Britain on a visit on April 5. He will attend meetings of the Faraday Society.

MR. DONALD W. HUDSON (a past president of the Brighton and Hove Association of Pharmacy, and a member of the Council of the Pharmaceutical Society of Great Britain) has made a donation to Brighton Technical College of all the equipment required for a pure pharmacy research laboratory. Brighton education committee accepted the offer on April 5 and decided that the laboratory should be named "The Donald Hudson Research Laboratory." The details of the apparatus that will be required for the new laboratory have yet to be decided upon.



MR. DUNCAN C. WATT, M.P.S., who retired at the end of March after thirty-two years' pharmaceutical service with Boots, Ltd., was given a reception by the directors of the company in Glasgow, and presented with a gold watch. At a ceremony at the George Street, Oban, branch of the company, he was presented with an easy chair from members of the company's staffs in Oban. Mr. Watt joined Boots, Ltd., in London after the first world war and eighteen years ago became manager of the company's first branch to be opened in Oban. Now on a month's holiday, he will return to the company to take charge of the postal department.

TRADE NOTES

Italian Quicksilver.—The sole suppliers of Italian quicksilver in the sterling area are now Roura & Forgas, Ltd., Hanover House, 73 High Holborn, London, W.C.1.

Local Delivery Service.—Harker Stagg, Ltd., Emmott Street, London, E.1, have established a dépôt at 70A Hamstead Road, Birmingham, 19.

New Pufferpack.—Thornton & Ross, Ltd., Huddersfield, are showing their Amogas insect powder (containing DDT) in a new pufferpack which is illustrated on another page.

Travel Sickness Tablets.—The Mothersill Remedy Co., Ltd., 92 Fleet Street, London, E.C.4, have introduced as tablets Mothersill's travel remedy. The tablets are issued in boxes of twelve.

Purchase-tax Changes.—The Scholl Manufacturing Co., Ltd., 182 St. John Street, London, E.C.1, announce that a number of Dr. Scholl's foot comfort specialities are now exempt from purchase tax.

Price Changes.—British Schering, Ltd., 229 Kensington High Street, London, W.8, announce price reductions in the 1-oz., 4-oz., and 8-oz. packs of Albucid soluble powder and Albucid pH adjusted substance.

Spring and Summer Display.—Chemists are invited to visit an exhibition of spring and summer merchandise which has been put on display at the London showroom of S. Maw, Son & Sons, Ltd., 67 Jermyn Street, London, S.W.1.

Correction to Advertisement.—Grove-well, Ltd., Walthamstow, London, E.17, announce that the retail price of Puck swim caps is 1s. 6d. each, including purchase tax, and not as stated in an announcement by the company recently.

Dispensing Pack.—British Chemicals & Biologicals, Ltd., 43 Regent Street, Loughborough, have introduced a 20-oz. tax-free dispensing pack of T.E.D. (theophylline ethylenediamine) cough linctus. All orders for the new pack must be endorsed "dispensing pack."

Exhibition of Plastics.—Articles made of Bakelite, Waverite and Vybak plastics shown at an exhibition organised by Bakelite, Ltd., 18 Grosvenor Gardens, London, S.W.1, at 13 Portman Square, London, W.1, recently included shaving-stick holders, shaving-set containers and powder bowls.

Tube Display Stand.—The display stand illustrated is manufactured by Universal

Metal Products, Ltd., Langley Road, Pendleton, Salford, Lancs.

Constructed of plastic material, the stand (10 in. high by 6 in. wide by 3 in. across base) is intended to display two to four tubes, according to size. It can be supplied in a number of attractive colours and shades, and the circle at the top can be recessed to allow a label to be affixed or maker's name engraved.



Through Wholesalers Only.—S. I. Rand, Ltd., 5 Argyll Street, London, W.1 regret that, by an omission, the word "obtainable from usual wholesaler" were not included in an announcement recently in these columns. Chemists are asked to place their orders for Pygmalion compact etc., with wholesalers.

Withdrawn from List.—Parke, Davis & Co., Staines Road, Hounslow, Middlesex announce that they are compelled to withdraw Antuitrin S (500 units per c.c.) from their price list for the time being. In memorandum dated March 31, the company list a number of items that have been discontinued (stocks exhausted).

Press Advertising.—Press advertising for Cooltan, a preparation for sunburn issued by Kathleen Court (England), Ltd. Cooltan Laboratories, 19 Thames Street Hampton, Middlesex, will appear from May and throughout the summer month in national daily, Sunday and weekly newspapers and in women's journals. Show material is available.

British Bee Venom.—B.B.V., the British bee venom (for the past sixteen years supplied to the medical profession only, for hypodermic injection) is now available from Antibody Products, Ltd., Bushe Grove Road, Watford, Herts, in a form in which it can be easily administered by patients themselves. The solution is simply rubbed into the skin. B.B.V. is presented in 12½-c.c. bottles.

"Double-bonded" Adhesive Dressings.

—Johnson & Johnson (Great Britain), Ltd., Slough and Gargrave, state that the new Band-aid waterproof adhesive dressings are "double-bonded" during manufacture to secure good anchorage of the adhesive mass to the film. The process ensures that the adhesive remains firmly attached to the film, so that the dressings peel off cleanly. Even after prolonged wear little deposit of the adhesive substance is left on the skin.

"Own Name" Photographic Books.

To foster local interest in photography, the Fountain Press, 46 Chancery Lane, London, W.C.2, have inaugurated a scheme whereby, for a nominal amount, retail photographic chemists may sell the company's shilling handbooks with their own name and address printed on the front cover. Titles include "Your Guide to Better Box Camera Photography," and "Camera Tips for Everyone."

Restyled and New Packs.—Prichard & Constance (Manufacturing), Ltd., North Circular Road, London, N.W.10, announce that two of their "star-selling" shampoos (Amami Nos. 1 and 5) have been repackaged, and a new product, Amami soapless powder shampoo, introduced. Advertising for the new shampoo is to commence in May, and chemists are advised by the company to display and sell out the old products and be ready with stocks of the new.

Formula Change.—C. J. Hewlett & Son, Ltd., 35 Charlotte Road, London, E.1, have amended the formulas of their preparations for oil-inhibitive therapy in the treatment of peptic ulcer. T.O.C. emulsion now contains, in each dose of two tablespoonfuls, magnesium trisilicate, dr. 1, and arachis oil, dr. 1, in a fine creamy suspension. The oil content has been reduced, and the vitamin C has been incorporated in T.O.C. tablets, each of which now contains vitamin C, 12.5 mgm., dry extract of belladonna, gr. $\frac{1}{8}$, and phenobarbitone, gr. $\frac{1}{4}$.

Progress with New Building.—A. Soake, Roberts & Co., Ltd. London, E.15, who have previously announced their intention ultimately to transfer the whole of the chemical production from their three factories at Stratford, London, E.15, to a 19-acre site at Rainham, Essex, state that the first step has been to erect a new plant for the production of tricresyl phosphate. The existing plant at Stratford will continue in use while the new one will con-

tribute an additional 4,000 tons annually of this important plasticiser. The new plant is expected to be in operation in August.

New Products.—THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1, are marketing an additional strength (25 mgm.) of tablets of nicotinic acid, B.D.H., in bottles of 100, 500 and 1,000.—EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19, have made available, in tubes of ten, penicillin oral tablets (Evans) in three strengths (50,000, 100,000 and 200,000 units potassium salt per tablet). The company are also issuing in 10-tablet tubes a new size of penicillin solution tablets (Evans) containing 15,000 units of calcium penicillin per tablet.—FINE INDUSTRIAL COMMODITIES, LTD., Acton Lane, Chase Estate, London, N.W.10, are now processing an Irish-moss extract under the trade name of Vegeline. The product is a pure extract of high viscosity, suitable for many industrial processes requiring an emulsifying, stabilising and suspending medium. The material, which is tasteless, odourless and of great strength, becomes soluble in water before boiling point and requires no previous preparation. Details and examples are obtainable from the manufacturers.



DISPLAY-OUTER PACK. The outer, opening out to form a display-piece, adopted by D. & W. Gibbs, Ltd., for their Astral skin cream (see C & D February 18, p. 207).

PROPRIETARY ARTICLES TRADE ASSOCIATION

Alterations to Protected List (Part 1).

—*Elliman, Sons & Co., Ltd.*, prices in Eire: Royal embrocation, 18s. doz., 2s.; 36s. doz., 3s. 9d.; athletic rub, 12s. 6d. doz., 1s. 6d.; 33s. 6d. doz., 3s. 9d.

Pharmax, Ltd., discount of 5 per cent. on orders for 6 doz. or over of either Diuromil or Ralgex.

Rybar Laboratories, Ltd., Creolix, 4-oz., 18s. doz., tax 33 $\frac{1}{3}$ per cent., inclusive retail price 2s. 9d., 8-oz., 32s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 4s. 11d.; C.T.A., 1-oz., 8s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 1s. 3d. Rybaferrin liquid, 8-oz., 14s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 2s. 2d. Rybaferrin tablets, 75's, 18s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 2s. 9d. Rybaferrin, 4-oz., 12s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 1s. 10d. Rybathane, 8-oz., 32s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 4s. 11d.

T. & H. Smith, Ltd., Glycodeine, 2-oz., 15s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 2s. 6d.; 4-oz. 28s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 4s. 3d.; new size, 8-oz., 48s. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 8s.

Splendor, Ltd., Nos. 13, corn pads, 14, callous pads, 15, bunion pads, 5s. 4d. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 10d.; 20c, corn caps, 6s. 4d. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 1s.; 111, felt corn pads, 4s. 8d. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 8 $\frac{1}{2}$ d.

Glaxo Laboratories, Ltd., Celin tablets, 50-mgm., 25's, 14s. doz., 1s. 9d.; 100's, 40s. doz., 5s.; dispensing packs, 500's, 174s. doz., 21s. 9d.; 1,000's, 28s. each, 42s.; 200-mgm., 25's, 40s. doz., 5s.; 100's, 136s. doz., 17s.; dispensing pack, 1,000's, 100s. each, 150s.; (all exempt from tax).

Potter & Clarke, Ltd., Antexema granules, 12s. doz., tax, 33 $\frac{1}{3}$ per cent., i.r.p. 1s. 7d.

Deletions from Protected List (Part 1).

—*Allen & Hanburys, Ltd.*, Alkagen tablets; Antihæsin; Befolin tablets; Calsolact and Calsolact D.; Halibol; Halibol capsules; Halibol malt; Lysantol; Magsyn. *Barclay & Sons, Ltd.*, Dr. Bateman's drops; Dredge's Heal-All; Sweeting's elixir. *Bayer Products, Ltd.*, Aspiiphenin tablets; Calsprin tablets. *Calmic, Ltd.*, Oravac. *Dodds Medicine Co., Ltd.*, Dodds kidney pills. *Alfred Fennings'* stomach strengtheners. *Glaxo Laboratories, Ltd.*, Clinecrol tablets; dinencæstrol tablets; Pelonin-amide tablets; Pelonin ampoules and tablets. *Kay Bros., Ltd.*, Kay's Mountain Flax pills; Laxapru laxative fruit syrup. *Knoll, Ltd.*, Oc-ton preparations. *D. Mawdsley & Co.*,

Kubol tablets. *May, Roberts & Co., Ltd.* Verax cough mixture. *Milner & Coke Ltd.*, G. O. seidlitz powders. *Roche Products, Ltd.*, Navigan. *Urillac Co., Ltd.* U. M. C. Ovoids. *Wigglesworth, Ltd.* Opasillin. *Drayton Paper Works, Ltd.* Drayton Mill Iva and Bono toilet papers. *J. Grossmith & Son, Ltd.*, Sk High perfume. *G. W. Harrison, Ltd.* Harrison's reliable rat poison; Rattabs hair colour restorer; weed killer. *International Chemical Co., Ltd.*, Louis Philippe face powder. *Pompeian Co., Ltd.* Pompeian toilet preparations. *St. Andrew Mills, Ltd.*, Marvo toilet rolls; Stane toilet rolls. *Voltas, Ltd.*, Voltasyr. *Western Dental Manufacturing Co., Ltd.* Hydro-Suctine; Sotol tooth powder.

Additions to Protected List (Part 2)

—*Gibbs Manufacturing Co., Ltd.*, Harrison's nursery pomade, 6s. doz., tax 33 per cent., i.r.p. 10d.; 11s. 3d. doz., tax 33 per cent., i.r.p. 1s. 7d.; Gibbs slug and snail exterminator, 10s. doz., 1s. 3d. (exempt)

Lifeguard Products, Ltd., Lifeguard toilet rolls, 116s. gross, tax 33 $\frac{1}{3}$ per cent. i.r.p. 1s. 4d.

Jackel & Co., Ltd., Jackel's Oilafix for the hair, 6-oz., 12s. doz., tax 100 per cent. i.r.p. 2s. 6d.; 10-oz., 20s. doz., tax 100 per cent., i.r.p. 4s. 2d.

Prichard & Constance (Mfg.), Ltd. Amami liquid pine-tar shampoo, 5s. 7 $\frac{1}{2}$ doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 9 $\frac{1}{2}$ d.

Thomas Reid & Sons, Ltd., Bamyl pin-tar liquid shampoo, 4-oz. (new size) 12s. 8d. doz., tax 33 $\frac{1}{3}$ per cent., i.r.p. 1s. 9d.

Anzora Perfumery Co., Ltd. (agents: *Fassett & Johnson, Ltd.*), Nuzora hair dressing, 12s. doz., tax 100 per cent., i.r.p. 2s. 6d.

Max Factor, Hollywood & London (Sales), Ltd., Max Factor's face powder, 19s. 4d. doz., tax 100 per cent., i.r.p. 3s. 11d.; New Hollywood lipstick, 3s. doz., tax 100 per cent., i.r.p. 6s. 7d. make-up foundation, 34s. doz., tax 100 per cent., i.r.p. 7s.; rouge, 18s. doz., tax 100 per cent., i.r.p. 3s. 8d.

Rapidol Ltd., Inecto Rapid, full size (four pairs bottles), 84s. doz., tax 100 per cent., i.r.p. 17s. 6d.

Silktona, Ltd. (agents: *Alfred Francis & Bartlett Co., Ltd.*), Silktona liquid stockings (leg make-up), 28s. 9d. gross, tax 100 per cent., i.r.p. 6d.

A NEW CARBON PRODUCT

A NEW form of elemental carbon with promise of wide applications in the chemical and allied industries has been brought into production by Powell Duffryn Carbon Products, Ltd., in association with Powell Duffryn Research Laboratories, Ltd., Lime Street, London, E.C.3. The material is mechanically strong, can be shaped to the most accurate specifications, and is free from porosity and permeability to liquids and gases, yet it possesses the normal properties of carbon,

such as chemical inertness and good thermal and electrical conductivity. The product has been given the name Delanium (to suggest its quasi-metallic properties) and may be obtained in two forms — Delanium carbon and Delanium graphite, with properties as summarised in the table at foot of page. It is made by carbonising selected raw materials in such a way that pores, cracks and fissures are not produced. Details of the process are given in patents granted to Powell Duffryn, Ltd.

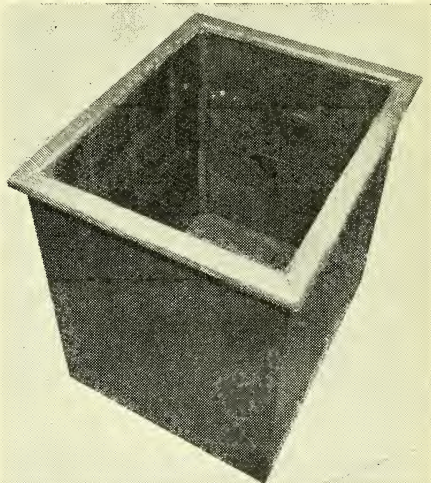
Briefly it is a physico-chemical process, depending partly on the property of certain carbonaceous materials, such as coking coal, to soften and swell before losing volatile matter, and partly on the chemical property of carbon to form strong cross-linked structures when such carbonaceous jellies are decomposed.

Harden and Shrink

It was noted, for example, that, over a carefully controlled range of temperature, a jellified carbonaceous mass would decompose and simultaneously harden and shrink. The shrinkage could be so great

as completely to close up the pores which would otherwise result from the decomposition.

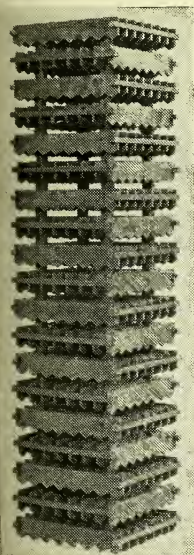
It has been used in the manufacture of a resistant heat-exchanger for use with corrosive liquids, in processes of condensing, adsorbing and cooling gases, and as



VAT MADE OF DELANIUM TILES.—By the use of Delanium cements, impermeable linings can be obtained that are not impaired by high pressures or temperatures.

chemical tiles for vat and tower linings, floorings, splash panellings, etc. (see illustrations). The finished product can be made to specification as to mechanical strength, surface hardness, density and porosity, thermal and electrical conductivities, freedom from impurities, "wettability," graphitic content (0.95 per cent. graphitisation), and machinability.

PROPERTY	DELANIUM CARBON	DELANIUM GRAPHITE
Apparent density (ash-free basis)	1.55	1.70
Electrical resistance in ohm/in.	.007	.0007
Thermal conductivity in B.Th.U./sq. ft./hr./°F./ft. ...	3	40
Transverse strength in lb./sq. in.	12,000	8,000
Compressive strength in lb./sq. in. ...	38,000	20,000
Coefficient of thermal expansion ...	$3.8 \times 10^{-6}/^{\circ}\text{C}$	$3.8 \times 10^{-6}/^{\circ}\text{C}$



DELANIUM PARAGRIDS POWER PACKING.—The elements are grids made from strips of hard, wettable Delanium. They can be sawn, cut and dotted to enable a structure to be built up.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society was held in London on April 4 and 5, Mr. H. Clement Shaw (president) in the chair. THE PRESIDENT welcomed Professor A. D. Macdonald (professor of pharmacology, Manchester University), whom he described as an "up-right, downright and forthright man," who had been appointed by the Privy Council to be a member of the Council of the Society. He also welcomed as guest Mr. L. Long (president, Pharmaceutical Society of Victoria, Australia), who was in this country for about six months, in particular to study the National Health Service. MR. LONG, who brought greetings from all the pharmaceutical bodies of Australia, said that pharmacy had been established in his own State for just under a hundred years. British pharmacy had provided 95 per cent. of the basis of Australian pharmacy. "On behalf of all those concerned with pharmacy in Australia," he said, "I wish to thank you for all you have done in the past and to assure you of our loyalty in all pharmaceutical matters in which we can join with you."

Nominations for Council

The following seventeen persons have been nominated (and accepted nomination) for election to the Council in May 1950:

ARMITAGE, George Henry, East Barnet.
BENJAMIN, William Sidney, Kingston-on-Thames.

BLACK, Hugh Lindsay Stirling, Kingston-on-Thames.

BROCKLEHURST, Eric Arthur, Hull.

BURR, Mary Agnes, Nottingham.

COOPER, William, Bristol.

GOULDER, Joseph Lovell, Cheltenham.

GRIFFITHS, Edward Trefor, Cardiff.

HESELTINE, Thomas, Normanton, Yorks.

HUGHES, Gwilym Hywel, Colwyn Bay.

MACFARLANE, Charles William, Dundee.

MADGE, Archibald George Mervyn, Plymouth.

MELHUISE, Andrew Ralph, Pinner.

PRIESTLEY, George Henry, London.

STEINMAN, Harry, Manchester.

WELLS, Frederick George, London.

WILLIAMS, Basil Allen, Brentford, Middlesex.

The following have accepted nomination as auditors:—Sir Harry Hague, London; Mr. John Capel Hanbury, Ware, Herts; Mr. James Stuart Hills, London; Sir Harry Jephcott, London; and Mr. Ernest Albert Umney, London.

Training Facilities

MR. A. A. MELDRUM, in presenting the report of the Education Committee, mentioned that correspondence had been received from the Wolverhampton and Swansea Branches concerning the establishment of additional schools of pharmacy, and the secretary had been instructed to reply along the general lines indicated by the Council, namely, that they were not in favour of increasing the number of schools at the present time; they did not think that it was in line with the educational policy of the country or of the Society that additional schools should be established at present. MR. H. M. HIRST asked whether Mr. Meldrum was satisfied that every student who wished to enter a school of pharmacy could now do so, and Mr. Meldrum replied that there was now ample accommodation for those who wished to enter pharmacy. MR. T. HESELTINE suggested that that was not quite the point and that regard should be had to the distances which students had to travel; for example, students in Leeds had to go to Bradford, and students in Swansea had to go to Cardiff. MR. MELDRUM said that it was better for students to go to a place where the conditions were suitable, rather than to a school in their own town, and THE PRESIDENT expressed the opinion that the provision of teaching staffs was the main problem. MR. HESELTINE did not agree that that was so, and maintained that teaching staff was available in Leeds today. MR. MELDRUM invited Mr. Heseltine to put up a case for consideration before the Council.

Amendments to Branch Motions

The following amendments to motions submitted for consideration at the Branch Representatives' meeting to be held on May 18, 1950, were added to the agenda: Chester and District Branch motion:—

Amendment: Delete "and that in the opinion of this meeting this is best attained by territorial representation," and substitute "and that every means be explored with a view to implementing this." (Woking and District Branch).

Woking and District Branch motion (3):—

Amendment: . . . and that the statement upon matters of professional conduct should be included in the syllabus for students of pharmacy (Reading and District Branch).

The Society's Library

Arising out of the report of the Establishment Committee, MR. H. STEINMAN

called attention to the handicaps which, he said, were created for those engaged in research by their inability to borrow certain volumes in the Society's library on request. He cited a recent instance that had come to his notice in Manchester, which he said was typical. It was a pity, he thought, if members were penalised because they lived away from London. The chairman of the Committee (MR. GRANVILLE SHAW) pointed out that certain books in the library were irreplaceable, and it was a standing rule that such books should not be sent out in any circumstances. If, however, any member wanted a photo copy, he could have it on application to the librarian.

General Certificate of Education

The Education Committee reported that regulations were being drafted to provide for the acceptance of a General Certificate of Education at a standard comparable with the present requirements for registration as "Apprentice or Student."

Final Herbarium Award

On the recommendation of the Education Committee, it was decided to award a bronze medal to Miss Beryl Davies, Pontsticill, South Wales, for the collection entered by her in the Herbarium Competition, 1950. The thanks of the Council were conveyed to Dr. T. E. Wallis for acting as examiner. (The Council decided at its February meeting to discontinue the competition until further notice.)

Examiners for Scholarships and Prizes

On the recommendation of the Education Committee the following were invited to act as examiners for the Scholarships examination, 1950:—Botany, Professor T. A. Bennet-Clark; chemistry, Dr. O. L. Brady; pharmacy, Miss I. Roberts; English essay, Dr. Thomas Dewar; languages, Dr. P. Aykroyd; business methods, Mr. F. A. Noble. The following were invited to act as examiners for the Council Prizes examination, 1950:—Pharmacognosy, Mr. G. Rattray; pharmaceuticals, Professor J. P. Todd; physiology, Dr. F. J. Elliott; pharmaceutical chemistry, Mr. H. H. Campbell.

Veterinary Codex Committee

It was reported that, with the authority of the Council, the president had appointed the following to be members of the Veterinary Codex Committee:—Messrs. G. Anderson, M.R.C.V.S., D.V.M.; W. Bruford, M.R.C.V.S.; J. P. Byron,

M.P.S., A.R.I.C.; J. Carmichael, D.Sc., M.R.C.V.S., Dip. Bact.; Professor T. Dalling, M.A., M.R.C.V.S.; F. J. Dyer, Ph.D., Ph.C., A.R.I.C.; A. G. Fishburn, Ph.C., F.R.I.C., D.P.A.; G. Hall, M.P.S.; H. G. Lamont, D.Sc., M.R.C.V.S.; C. W. Mapletorpe, Ph.C., F.R.I.C. (chairman); R. F. Montgomerie, B.Sc., Ph.D., F.R.C.V.S. (vice-chairman); and R. Neal-Morris, M.R.C.V.S., M.P.S.

Films Committee

THE SECRETARY reported that the president, on the Council's behalf, had appointed the following to be members of the Films Committee:—Messrs. A. Chamings, B.Pharm., Ph.C.; A. G. Fishburn, Ph.C., F.R.I.C., D.P.A.; S. Taylor, Ph.C.; G. E. Trease, B.Pharm., Ph.C., F.R.I.C., F.L.S.; P. J. White, M.P.S., and W. J. Merrick, M.P.S. The formation of the committee arose out of a meeting held at the Society's headquarters to consider the rôle of the film in pharmacy. The Committee will act in accordance with terms of reference approved by the Council.

It was decided to invite Mr. G. H. Hughes to represent the Council at the Congress of the Royal Sanitary Institute to be held in the current month in place of Mr. W. J. Tristram who was unable to attend.

Honorary Members

On the recommendation of the Establishment Committee, moved by MR. GRANVILLE SHAW, it was agreed that Professors W. J. Dilling (a member of Council, 1938-50) and René Fabre (Dean of the Faculty of Pharmacy, Paris) should be selected for election as honorary members of the Society at the May meeting of the Council.

Index of Retail Prices.—The Ministry of Labour has issued a booklet (published by H.M. Stationery Office, price sixpence) showing the method of construction and calculation of the interim index of retail prices. In miscellaneous goods (group VI), section 3 (medicine and toilet requisites) includes selected proprietary medicines, etc., tooth-pastes, razor blades and cosmetics. In calculating the index, "weights," according to the pre-war pattern of consumption, are given for the various goods and services; medicine and toilets are given a weight of seven (i.e., seven parts per 1,000 of the grand total). Retail prices at June 17, 1947 (the date at which the interim index was instituted) are taken as a base (=100).

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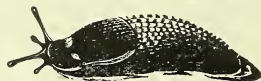
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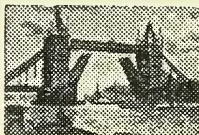
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VOL. CLIII APRIL 15, 1950 No. 3660

How Many Schools?

THE president of the Pharmaceutical Society has invited Mr. T. Heseltine, the irrepressible "member" for Normanton, to present to the Council at a forthcoming meeting (see p. 465) a case for increasing the number of centres at which students may receive training in pharmacy.

At present the policy of the Council, echoing that of the Ministry of Education, is to leave as they are the existing facilities. Behind that policy lie the beliefs (a) that further teaching staffs would not be available except at the expense of existing schools, or to the detriment of present standards of teacher; (b) that the accommodation available is adequate for all intending entrants; and (c) that no student is called upon to travel such a distance to a training centre as to cause him hardship.

Against this Mr. Heseltine maintains that to require an intending student to travel from Swansea to Cardiff (close on fifty miles) or even from Leeds to Bradford (about ten) may be either a penalty or a deterrent. Moreover, says this former chairman of the Leeds Branch, it is not true that a city like Leeds, with its half-million inhabitants, is unable to produce the necessary teaching staffs.

It is not for us to anticipate the sort of case Mr. Heseltine will present to the Council, but there are factors in the present situation that have been causing uneasiness to many thinking pharmacists.

Obviously the country—pharmacy likewise—cannot afford to maintain vocational training in places where there are

not enough entrants for economical working, and during the past decade a number of pharmacy schools have shut for that or other reasons. It is, however, only partly an answer to the problem to say that those that remain can between them train students to the required number for replenishment, as Mr. Shaw says they are able to do. One needs to know also what proportion of the trainees are in fact taking their place as practising pharmacists, and how many are aspiring to the higher qualification and going into manufacture or research. If, as we suspect, the principals of the main training centres are putting their weight on the side of the higher qualifications, then the gain to manufacturing pharmacy (and we are as interested as anybody in securing progress in that field) may, on the present number of entrants, result in shortages in the pharmacies of chemist-contractors and of hospitals. We have the feeling that something of the sort is already taking place.

Another long-term consideration has to do with the quality of the recruits. With Leeds under a ten-mile handicap, Bradford (half its size but having the pharmacy school) may tend to provide the majority of students from within its boundaries, with the loss (to other callings) of potentially better material from the larger centre.

The issues we have raised are for the most part susceptible of solution on a factual basis. It is time, however, that the facts became known. For too long we have had from Council spokesmen hints that the man-power report would support this contention or refute that. Is it not time we had the report itself? Members of the Society could then judge for themselves, as they have every right to do, whether the right type of recruit, in the right numbers, is getting the right training in the right place.

Business Premises in Scotland

THE Committee of Inquiry into the Tenure of Shops and Business Premises in Scotland, which issued an interim report in December 1948 (see *C. & D.*, 1949.I.162) has now issued its final report (Cmd. 7903). It will be recalled that the Committee previously came to the conclusion that it

was right to offer some temporary protection to tenants until the whole inquiry should be completed. The recommendation was substantially accepted and was given effect in the Tenancy of Shops (Scotland) Act, 1949. The Act provides that a tenant of shop premises may apply to the Sheriff for a renewal of his tenancy, and the Sheriff may renew it for up to one year.

The Committee now recommends that the Act should continue in operation until 1955, maintaining the wide discretion of the Sheriff, but that its provisions should not be extended to (a) business premises other than shops, or (b) sub-tenants. A landlord, it considers, should have the right to apply to the Court for permission to exclude certain tenancies (e.g., where they prevent the expansion of a business of his own) from the working of the Act, and the Sheriff the right, on the motion of the landlord, to impose a requirement that the tenant should enter into a lease "of reasonable duration" (at present the maximum period of renewal is one year, which is related to the practice in Scotland).

A minority report is put in by two members of the Committee. They agree with most of the findings in the majority report, but do not agree that a sufficiently strong case exists for distinguishing between tenancies of shops and those of other business premises. They point out that lack of evidence of hardship is no criterion that it does not exist, since in 1947 the Committee "made every possible attempt to obtain evidence of hardship from shop tenants." Then also the volume of evidence was small, yet legislation speedily became necessary. Tenants of offices, small factories, etc., are even less likely to submit evidence, they consider, than shop tenants.

Salves for Sheep

A PRESS reference to the sheep "salver" of earlier days evoked a comment from a representative of a firm of agricultural chemists in Skipton, Yorks, that his firm once sold large quantities of salve specially prepared for applying to sheep as an added protection against the rigours of the winter. The ingredients were wool grease, Archangel or Stockholm tar, and whale oil. Before the 1914-18 war the

firm used to sell about two tons of the salve each year. The sheep "salver" was then an important and familiar figure on the upland farms in the Yorkshire Dales. His function was to part the wool down the middle of the sheep's back and work in the salve with his hands. The heat of the sheep's body caused the salve to spread and form a protective undercoat beneath the fleece. Although salving is no longer fashionable, a modified form of it is still practised on moorland farms. Each autumn, after the sheep has been immersed in a carbolic dip and has emerged into the drying pen, the wool down the middle of the back is parted by the moisture. Along this parting is poured a $\frac{1}{4}$ pint of whale oil. The quantity may not appear great, but it is considered adequate for its purpose.

A PHARMACIST'S ANTHOLOGY

Mr. Crotchett, Jun. Pray, gentlemen . . . fill your glasses; and consider what we shall do with our money . . .

Mr. Firedamp. Drain the country and get rid of malaria, by abolishing duckponds.

Dr. Morbific. Found a philanthropic college of anti-contagionists, where all members shall be inoculated with the virus of all known diseases. Try the experiment on a grand scale . . .

Mr. Henbane. Found a toxicological institution for trying all poisons and antidotes. I myself have killed a frog twelve times and brought him to life eleven; but the twelfth time he died. I have a phial of the drug which killed him in my pocket, and shall not rest until I have discovered its antidote.

The Rev. Dr. Folliott. I move that the last speaker be dispossessed of his phial, and that it be forthwith thrown into the Thames.

Mr. Henbane. How, sir? My invaluable, and, in the present state of human knowledge, infallible poison?

The Rev. Dr. Folliott. Let the frogs have all the advantage of it.

[Mr. Henbane is "the toxicologist, I think he calls himself. He has passed half his life in studying poisons and antidotes. The first thing he did on his arrival here was to kill the cat; and while Miss Crotchett was crying over her, he brought her to life again."]—From "*Crotchett Castle*," by T. L. Peacock.

DEVELOPMENT OF DETERGENTS

Abstract of an address by Mr. N. J. Harper, M.Sc., M.P.S.N.I., to an evening meeting of the Pharmaceutical Society in Edinburgh

THE term detergency as ordinarily used implies cleaning the surface of a solid object by means of a liquid bath, in such a way that the cleaning involves a physico-chemical action other than simple solution. Water is rarely a satisfactory cleansing medium, unless the dirt is water-soluble. Oil requires emulsification, fats saponification, insoluble matter must be first deflocculated and then brought into stable suspension, while hard or acid water requires counteracting. In the food and pharmaceutical industries, biological growth must be retarded, particularly if pathogenic. To assist water to do these things, detergents have been developed. Detergency, therefore, is better defined as the unusually enhanced cleaning effect of liquid bath, caused by the presence in the bath of a special agent, the detergent.

Surface Active Agents

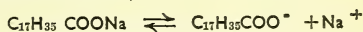
Certain substances even when present in very low concentration have the property of altering the surface energy of their solvents to an extreme degree. These are known as surface active agents and as a rule they are characterised by a molecular structure essentially linear. The most important feature is the possession of a large hydrophobic (water-repellent) or non-polar group in the molecule, usually in the form of a long hydrocarbon chain, but sometimes as a hydrocarbon ring or system of rings, and attached to this a hydrophilic (water-attracting) or polar group, such as a carboxylate, hydroxyl, sulphonate or sulphuric ester group which confers water solubility on the compound. Detergents are best if the soluble group is towards the end of the hydrophobic group.

Soaps are one of the simplest examples of surface active agents; for example, sodium stearate $C_{17}H_{35}COONa$ illustrates the principles. Molecules of this type orient themselves at the surface of the solution and also at the interphase between a soap solution and an immiscible liquid. In each case, the soluble water-attracting group stays in the water surface while the hydrocarbon chain tries to move out of the water surface and into the oil or other immiscible liquid. This results in a reduction of surface tension in the first case and a reduction of interfacial tension in the second. Another important property

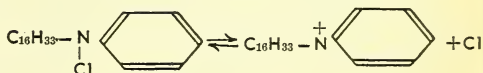
associated with surface active agents is the effect of solubilisation or the carrying of normally insoluble substances into thermodynamically stable solution.

Surface active agents are more noteworthy for a group of typical effects, usually called gross effects. Such effects are:—Wetting, foaming, deflocculation or dispersion, emulsification and detergency. All detergents are surface active compounds, but not all surface active compounds are detergents. The problem is further aggravated by the difficulty in finding methods to measure the gross effects.

Depending on the nature of the electrical charge on the hydrophobic group or the absence of ionisation, detergents have been classified as anionic, cationic and non ionic. If the hydrophobic portion of the molecule is included in the anion in aqueous solution, the substance is called anion active or anionic (for example, sodium stearate).



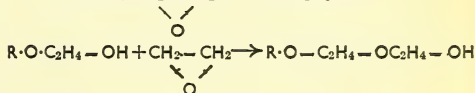
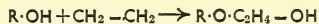
In the cationic the cation contains the hydrophobic portion of the molecule (for example, cetylpyridinium chloride).



The fatty esters of glycol and glycerol were the earliest non-ionic surface active agents, for example, glycerol mono oleate.

More soluble non-ionic esters and ethers are obtained by condensing polymerised ethylene oxide with fatty alcohols or with substituted phenols.

Ethylene oxide adds to hydroxy groups under moderate conditions of temperature and pressure in the presence of alkaline catalysts.

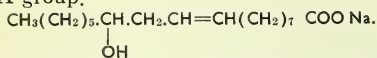


By this method any required chain length and solubility can be obtained.

Anionic Type

The anionic type of detergent is the most numerous. It includes ordinary soaps, sulphated oils, alkyl sulphates, sul-

phoned alkyl amides, alkyl aryl sulphonates and sulpho-succinic esters. Great Britain has been interested in soap as a detergent since the fourteenth century, and prior to 1939 the annual consumption was of the order of 29 lb. per head of the population. Soaps are probably one of the oldest manufactured organic chemical products, and in spite of a few disadvantages are still among the cheapest detergents, and superior to many of the synthetics. Sodium stearate is only slightly soluble in cold water. Shortening the chain improves solubility, but the process can be carried too far, for example, CH_3COONa which, as the shortest possible chain is very soluble, has no detergent properties. A chain of eleven carbon atoms seems to be the maximum necessary to balance a carboxyl group, as the sodium salts of fatty acids with shorter chains have no soap-like properties. If a hydroxyl group is introduced, the solubility becomes high and surface active properties are eliminated. Castor oil soaps are poor for this reason. They consist chiefly of sodium ricinoleate—a compound with three hydrophilic groups— COONa , a double bond, and an OH group.



The traditional soaps based on palmitic, stearic and oleic acids, although good detergents, possess inherent disadvantages. It seems inevitable that unless the world supply of naturally occurring oils and fats increases considerably there will be a partial, though gradual, displacement of the traditional soaps for many purposes.

Most of the familiar synthetic detergents have been developed within the past fifteen years. The method of approach has been to obtain a balance in the polar-non-polar type of molecule, either by a change in the hydrophobic group, or by the introduction of powerful solubilising groups. The most powerful hydrophilic groups in approximately decreasing order of effectiveness are: $-\text{OSO}_2\text{ONa}$, COONa , SO_2ONa , OSO_2OH , while other groups which confer water solubility are $-\text{OH}$, SH , $-\text{O}-$, $=\text{CO}$, NH_2 , also double and triple bonds. The sulphate and sulphonate groups confer high solubility and are very common end groups in detergents. Confusion still exists, however, with regard to their nomenclature, sulphonated fatty acid is a generic name for this type of compound—but in actual fact most of these compounds are sulphates

with a $-\text{OSO}_2\text{OH}$ group and not sulphonates which have a direct carbon-sulphur bond— SO_2OH .

Progress of Detergents

A noted landmark in the modification of the fatty acid molecule had already taken place in 1860 with the discovery of the sulphated (usually called sulphonated fatty oils of which Turkey red oil is perhaps the best known. The sulphonated oils were followed later by the development between 1914 and 1918, in Germany, of alkylated naphthalene sulphonates. These only found application for specialised purposes, one of the serious disadvantages being their cost of production. From about 1925 onwards the line of approach has been the elimination or blocking of the terminal carboxyl groups either by reduction to the alcohol or by esterification or amidation, the object being to join the hydrophobic group with a solubilising group, while preserving the stability in acid solution and the stability of the divalent metallic salts. The discovery that petroleum was a readily available and comparatively inexpensive source of raw materials for detergent manufacture, brought about rapid developments prior to 1939 and this was accelerated by the fat shortage during the recent war.

(To be continued)

A Trypanocidal Drug Reviewed.—

Davey and the late H. F. S. Curd ("British Journal of Pharmacology and Chemotherapy," 1950, **5**, 25-32) give a detailed report on experiments with Antrycide, a trypanocidal drug, during 1947-48. Two salts were used—the chloride which is only slightly soluble in water, and the methyl sulphate which is freely soluble in water. Absorption of the two salts, after their subcutaneous injection, appears to be directly related to their solubility, a suspension of the chloride being absorbed slowly and a solution of the methylsulphate rapidly. When tested in mice the substance was found to be most active against *Trypanosoma congolense*, *T. evansi*, *T. equinum* and *T. equiperdum*, but also to exhibit marked activity against *T. brucei*, *T. rhodesiense*, and *T. gambiense*. No activity has been detected against *T. cruzi*. The prophylactic properties of the drug are thought to be due mainly to the establishment of a reservoir of the drug beneath the skin from which absorption takes place slowly.

INDUSTRIAL AND MEDICAL FILMS

A FIRST showing of "Industrial Dermatitis," a film prepared by Film Producers' Guild for IMPERIAL CHEMICAL INDUSTRIES, LTD., London, S.W.1. was given recently. The film (16 and 35 mm., running time thirty minutes) has been made for showing to medical and nursing audiences. It begins with a sequence in which a young woman with a dermatitis of the hands visits a Harley Street consultant. The diagnosis of her case by the specialist introduces basic principles of dermatology and patch testing. The patient, a first-year medical student, determines to specialise in dermatology. Three years later the student is shown in a medical school, where the consultant is the lecturer. He shows the class films which illustrate, first by animated diagram, the anatomy, physiology and characteristics of the skin; and secondly industrial or occupational dermatoses.—A colour film recording the effects of combined treatment with deoxy-

cortone acetate or deoxycortone glucoside and ascorbic acid in seven cases of rheumatoid arthritis has been prepared by CIBA LABORATORIES, LTD., Horsham, Sussex, for showing by a rheumatologist to audiences of general practitioners. The film adopts a "before and after" technique (the two shown simultaneously at left and right of the screen) to illustrate the degree of mobility in patients before and thirty minutes after injection, thus enabling both degree and speed of movements to be compared. Dosages were of the order of 5 mgm. deoxycortone acetate in oil intramuscularly or 5-10 mgm. intravenously with 1 gm. ascorbic acid given intravenously at an interval of five minutes or simultaneously. Produced by Mr. Brian Stanford, M.R.C.S., with the assistance as medical advisers of Mr. David Le Vay, M.S., F.R.C.S., and Mr. Geoffrey Loxton, M.B., M.R.C.P., the film is on 16-mm. stock and runs for sixteen minutes.

NEW BOOKS

Costing and Management.—M. Gilbert Frost, 7½ in. x 5 in. Pp. 88. 5s. Winchester Publications, Ltd., 16 Maddox Street, London, W.1. This book is primarily addressed to those holding managerial positions in small manufacturing business concerns. The author explains the purpose of a costing system and examines the organisation of a typical cost office. Later chapters deal with the classification and apportionment of overhead expenses.

Packaging and Display Encyclopædia (second edition).—11 x 8 in. Pp. 864. 63s. George Newnes, Ltd., Tower House, Southampton Street, Strand, London, W.C.2. In this monumental volume, handsomely bound in buckram, the publishers have made every effort to provide answers in advance to the many problems of sources of supply, and to meet technical difficulties with articles on bottling, printing, labelling, packaging of pharmaceutical products, etc., and it is not surprising that several hundred pages of new material distinguish the edition from its predecessor. A subject and names index is included.

Chemical Industries.—Edited by E. N. Firatsoo, Ph.D., D.I.C., B.Sc. 11 x 8½ in. Pp. 352. 30s. Leonard Hill, Ltd., 17 Stratford Place, London, W.1. The twenty-second edition of this work of reference, first published in 1925 as "Chemical Engineering and Chemical Catalogue,"

shows a rearrangement of many of the tables, a complete re-writing of the Index to Technical Data (made necessary by the large number of additions, and a new feature on refrigeration). The classified index is usefully divided into "Chemicals" and "Plant," and the chemical glossaries are subdivided into industrial, pharmaceutical and perfumery raw materials.

Norway.—L.C.S. Barber, M.B.E. Pp. 79. 1s. 6d. **Denmark.**—S. Simmonds, O.B.E. Pp. 91. 2s. Published for the Board of Trade's Commercial Relations and Exports Department by H.M. Stationery Office, London, W.C.2. Two further books in the series of overseas economic surveys of individual countries, they follow the pattern of earlier books and contain sections on finance, trade, industry, natural resources, communications, etc., and include a wealth of statistical information. The importance of the Norwegian electro-chemical industry is emphasised—that industry, which works mainly for export, has recovered its pre-war volume and plans to double it by 1952-53. Danish imports of British chemicals (including pharmaceutical products) rose from 22,346,000 kroner in 1947 to 35,068,000 in the following year.

1950-51 Ration Books.—The ration books for the period 1950-51 will come into use on May 21, 1950.

ADVANCES IN DERMATOLOGY

At a meeting of the Dundee and East and Central Scottish Branch of the Pharmaceutical Society recently, Dr. J. Rogers gave an address entitled "Advances in the Treatment of Skin Diseases."

DR. ROGERS said that to qualify as "an advance" a new preparation must be more effective than other medicaments that had been employed in the treatment of the disease that it was claimed to cure. It must be less irritant, give rise to less sensitisation, and have less systemic side-effects than known preparations which were in use. If the new agent could be used for treating serious internal disease, its use in skin disease must not produce a sensitivity that might preclude its subsequent use internally. For the same reason it must not give rise to resistant strains of bacteria that might cause internal disease. In local therapy, the sensitisation index of a drug was of far greater importance than experimental evidence of its effectiveness in killing germs. Cases that might have been cured by older remedies were often converted to a serious contact-type dermatitis by injudicious use of complex new preparations.

Sulphonamides and Penicillin

The sulphonamides had failed to add much to the armamentarium of the dermatologist, not because they failed to heal infective conditions, but because their use locally caused sensitisation. Penicillin used locally had also considerable sensitising properties, and it was not much more effective than the older remedies in the treatment of pyodermias such as impetigo. The range of action of penicillin on the varied skin flora was limited, and a *Pyocyanus* infection might remain even after penicillin-sensitive organisms had been eliminated. Theoretically, an antibiotic such as Tyrothricin, which had a lower index of sensitivity and wider range of antibacterial activity, and which was too toxic ever to be used internally, was a better local application than penicillin. Systemic administration of penicillin was of considerable use in dermatology where a pyogenic skin infection such as furuncle or carbuncle seemed to be headed for a blood stream infection.

An ordinary case of urticaria was controlled with moderate doses of antihistamines. Within a few days the dose was progressively reduced. Chronic urticarias were a different problem, and one often

had to try all the antihistamines in rotation before finding one that controlled the eruption without unwanted side-effects. In allergic eczema, the antihistamine drug were not successful. They removed an urticarial element in the eruption, but the basic eczematous condition was not affected. They helped considerably in the management of papular urticaria or recurrent hives in children. On the other hand, his experience with the local use of the antihistamine drugs in ointments had been disappointing, but it should be remembered that a local itchy condition has usually been present for a long time and had been assaulted with a variety of preparations before its unfortunate possessor appeared before a dermatologist.

Quinoline Derivatives

Of the quinoline derivatives, Vioform (2-chloro-7-iodo-8-hydroxyquinoline) had been known and used by Swiss dermatologists for many years, but was only now becoming popular in the treatment of impetiginous eruptions. Like most of the complex new preparations, it should not be used for more than five days without medical supervision to detect commencing sensitisation. A person sensitive to iodine might get a reaction. Compound Quinolone ointment represented a distinct advance in the treatment of staphylococcal infection of the bearded area and scalp. In addition to the active quinoline agent it contained benzoyl peroxide, and part of its therapeutic action was obtained by peeling, so that it must be used with care on sensitive or on inflamed skin.

Before the introduction of 2,3-dimercaptopropanol (B.A.L.), exfoliative dermatitis due to arsenic presented an almost insoluble problem in treatment. Such cases were now aborted in the early stages with B.A.L., which had also been found effective in other heavy metal poisonings such as that due to gold.

The greatest achievement of the past few years had been the successful treatment of lupus vulgaris with high dosage of vitamin D₂ (calciferol). The treatment had revolutionised the outlook for patients with that insidious and disfiguring tuberculous disease of the skin. Despite the retical toxic effects, results were satisfactory. It was no exaggeration to say that people who had not been able to face their fellow men and women in the light of day were now able to lead a normal

existence. Provided a thorough initial examination did not reveal any internal focus of tuberculosis, the dose given was 150,000 units daily over a long period.

Use of Hormones

The use of hormones was confined to patients who were obviously deficient in those substances. Pituitrin in the early stages of herpes zoster mitigated the pain of that eruption, which might be severe in elderly people. Benzyl benzoate gave a rapid and comparatively innocuous treatment for scabies, but the hunt was still going on for a scabieticide that would be effective in one application. The discovery of DDT must have been a powerful jolt to the body-louse, while its close relative, the head-louse, was now dieted with a 2 per cent. DDT emulsion.

Condylomata acuminata (non-venereal warts) were now treated with 20 per cent. podophyllin resin in spirit. The application should be washed off after six hours. This resin had no effect on the vulgar wart. Before attempting cautery destruction of the disabling plantar wart a 3 per cent. solution of formalin, used as a

minute footbath, was applied to the affected area (of the sole only) for ten minutes each night for four to six weeks. Fungous disease had been the subject of research during the past years but there had been few significant advances in therapy. Several of the fatty acids (for example, undecylenic) had a low sensitising index. They were eminently suitable for use as prophylactics and were successful in preventing recurrences.

In the realms of physical therapy the radioactive thorium-X had become popular as a safe method of applying repeated doses of weak radiation to the skin. The speaker had had some success with pale red birthmarks and had found the substance useful also in chronic yeast infections of the nail-folds.

While soft paraffin retained its place as the most commonly prescribed base, advances in physical chemistry had led to finer and more stable emulsions, to water-washable bases, and finally to penetrating bases. In America, Carbowax bases (combinations of polyethylene glycols) were claimed to carry an active ingredient far into the skin.

CENSUS OF PRODUCTION

The scope of the Census of Production for 1950 and the information to be obtained have been settled after consultation with the Census of Production Advisory Committee. The Board of Trade announces that the statutory form of return will contain sections relating to (1) working proprietors; (2) employment; (3) wages and salaries, etc.; (4) materials and fuel purchased; (5) work given out; (6) stocks at the beginning and end of year; (7) output and merchanted goods sold and (8) analysis of sales. The first five sections will be broadly as for 1949, except that for wages no quarterly figures but only the year's total will be required.

Different Questions

An important change in the questions for 1950 from those in previous censuses is that firms are to be asked to give the total value of sales and of stocks of merchanted goods. In the output section, firms will also be asked to state separately the total value of sales of their own manufactures, and the total payment received for work done. The analysis of sales section will be broadly on the same lines as for 1948, but will cover merchanted as well as manufactured goods.

A voluntary inquiry into capital expenditure is being undertaken by the Board of Trade and other Departments among a sample of industrial firms. It has been decided that, if this inquiry meets with a satisfactory response, no questions about capital expenditure need be included in the Census of Production for 1950.

Special consideration has been given to certain trades (including pharmaceutical and toilet and perfumery manufactures, but not manufacture of drugs and chemicals) "where it is common for establishments to do both processing and merchanting or retailing." In those trades Census of Distribution returns will be required from firms engaged in merchanting or retailing, and Census of Production returns will be required from firms engaged wholly in production. No establishment engaged mainly in those trades will be required to make both a distribution and a production return, and for those establishments that make a production return the form will be confined to an analysis of sales.

Summer Time Begins.—Summer-time commences at 2 a.m. on April 16. Clocks should be put forward one hour at the close of business on April 15.

PHYSICAL SOCIETY'S EXHIBITION, 1950

THE thirty-fourth annual exhibition of the Physical Society, opened by Professor S. Chapman, F.R.S., was held at the Imperial College, London, from March 31 to April 5. Exhibits were shown on 125 stands from instrument manufacturers, Government departments, universities and other exhibitors.

Aerodynamics of Atomisation

A demonstration and photographs from the Chemical Defence Experimental Establishment of the Ministry of Supply showed how the aerodynamic forces affecting the break-up of a drop of liquid during an atomising process may be studied. By the method water drops of known size are allowed to fall into a small vertical transparent wind tunnel down which a steady stream of air of measured velocity is maintained, and their break-up is observed by stroboscopic illumination. The drop is seen to become increasingly flattened and at a critical velocity of the air stream it is blown out like a hollow bag attached to a roughly circular rim. Bursting of this bag produces a shower of very fine droplets, and the rim, which contains at least 70 per cent. of the mass of the original spherical drop, breaks up later into much larger droplets. The entire break-up is completed in a few milliseconds. Photographs of the various stages of the break-up were obtained with an electronic flash tube triggered photo-electrically by the falling drop. Measurements were made of the critical air velocity required to break drops of various sizes, and the influence of the surface tension and the viscosity of the liquid was investigated. The method has a direct application to study of the formation of insecticide or perfume mists.

An automatic constant volume fraction collector for use in chromatography or fractional distillation designed to collect separate fractions of eluent of a constant predetermined volume was shown by the Chemical Research Laboratory, Teddington. The mechanism of the apparatus is operated when the meniscus of the rising column of the liquid in the flask neck interferes, when the predetermined volume has been reached, with a beam of light falling on to a photoelectric cell. An electric motor then engages through a slipping clutch and causes another flask to be brought into position. During the few seconds taken by the change, the flow of the liquid is arrested by a tap device.

For the production of highly pure water the use of a single bed of mixed cation and anion exchangers (through which the water to be de-ionised is percolated) was also demonstrated. The model shown has a capacity of 200-300 litres of tap water per day. After use the resins may be regenerated.

Prototype sets of molecular models made on the Stuart pattern (particularly suitable for certain physico-organic problems) were also shown by the Laboratory

Metropolitan-Vickers Electrical Co. Ltd., showed an electronic blood-counting machine (see illustration) claimed to have uses in large hospitals and hospital centres. 10,000 or more cells of each sample of blood are counted with a statistical variation in the result of ± 7 per cent. The counting process takes nine seconds.

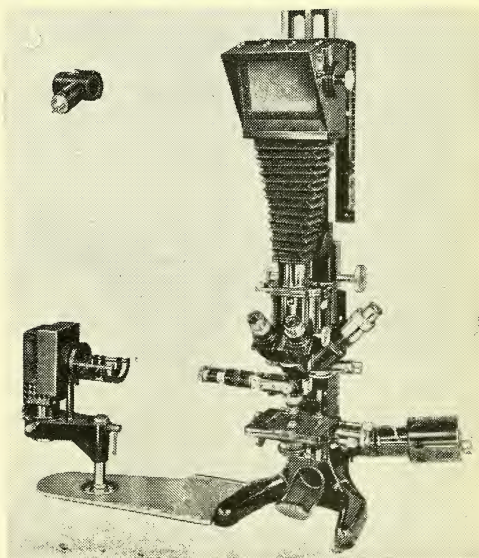
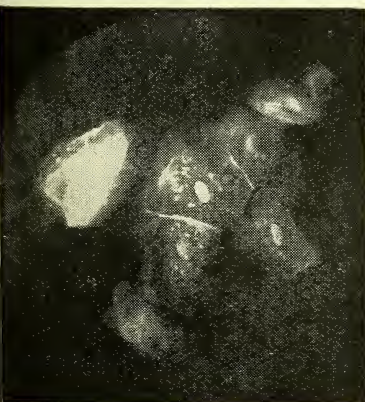
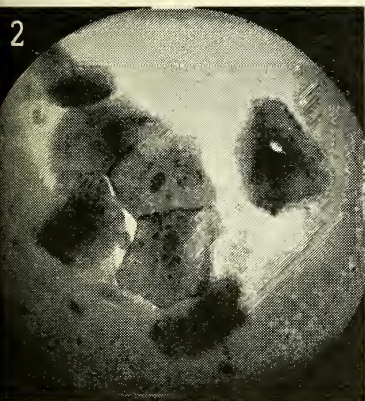
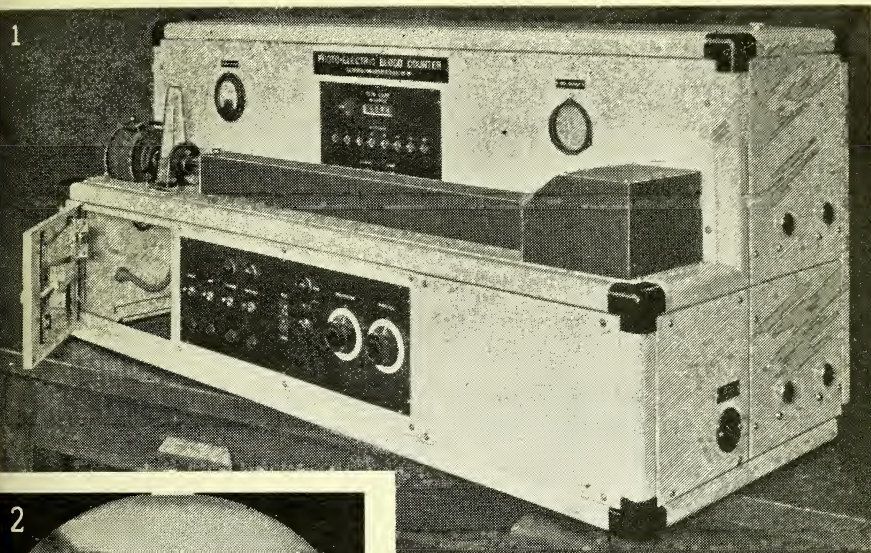
Amongst the vacuum apparatus shown was a vacuum hot plate designed by W. Edwards & Co., Ltd. It consists essentially of an electrically-heated hot plate and a metal radiation cover which forms an oven within an evacuated glass bell-jar.

Corundum planes had been fitted to the aperiodic prismatic reflecting weight loading balance shown by L. Oertling, Ltd.

Stereoscopic Electron Micrograms

Microscopy occupied a large section of the exhibition. A small optical system that can be fitted to most microscopes and which produces interference contrast (having uses similar to phase contrast) was shown by the research laboratory of the Associated Electrical Industries. They also demonstrated a simple method for producing stereoscopic electron micrograms. Two superimposed photographic images of the object viewed from different angles in an electron microscope are made, one being printed red and the other green. The resulting anaglyph is viewed through colour filters, a green filter being placed over one eye and a red filter over the other. Stereoscopic electron micrograms have proved particularly useful in examining viruses, etc.

Among the largest instruments shown was the new 3-metre grating spectograph by Hilger & Watts, Ltd. The company's smaller apparatus displayed included a new flow-through preparative cell for Tiselius electrophoresis, and an Abbé refractometer modified for use with opaque substances.



AT THE PHYSICAL SOCIETY'S EXHIBITION

1. The console of the electronic automatic blood corpuscle counting apparatus (see opposite page).
2. Illustrations showing different effects produced when viewing epithelial cells by interference contrast (see opposite page).
3. Universal microscope (R. & J. Beck, Ltd.) for transmitted and vertical illumination.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescriptions. Editorial recommendation is not implied. Reprints obtainable on application.

INTRASEPT (Riddell's)

MANUFACTURER: Riddell Products, Ltd., Axtell House, Warwick Street, London, W.1

FORMULA: Iod., 4.1; liq. ammon. dil., 25; caffein. et sod. benz., 5.5; sod. sal., 1; calcium phosphor., 5; ol. menth pip., 1.5; alcohol (90 per cent.), 45; aq. dest. ad. 100.

INDICATIONS: Bronchitis, influenza, tonsillitis, laryngitis, coughs, etc.

DOSAGE: 8-10 drops three or four times daily in sweetened or plain water.

HOW PACKED: In pipette bottles of 6 gm.

BARINTAR

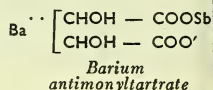
MANUFACTURER: Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester.

DESCRIPTION: Barium antimonyltartrate, a white, finely divided powder, sparingly soluble in water.

INDICATIONS: Infestation of poultry and game with *Syngamus trachea* (gapeworm).

USE: The powder is administered as a fine dust by inhalation by being sprinkled or blown over the chicks in a closed box. For about five birds an ounce of Barintar is used in a container of about 8 cubic feet. The birds are allowed to inhale the dust-laden air for about ten minutes.

HOW SUPPLIED: Containers of 30 and 500 gm.



SEDULON SYRUP

MANUFACTURER: Roche Products, Ltd., Welwyn Garden City, Herts.

DESCRIPTION AND FORMULA: A syrup containing in each fluid drachm approximately 50 mgm. of Sedulon (3:3-diethyl-2:4-dioxopiperidine).

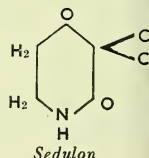
INDICATIONS: When coughing may be harmful, e.g., after whooping cough, bronchitis, etc. As a sedative, particularly for children suffering from respiratory and urinary infections, etc.

DOSAGE: *Infants*: One to three teaspoonfuls daily.

Children: Three to six teaspoonfuls daily.

Adults: Six teaspoonfuls or more daily. At bedtime, one tablespoonful.

HOW SUPPLIED: Bottles of 4 and 16 fl. oz.



PENDEX

MANUFACTURER: Menley & James, Ltd., 123 Coldharbour Lane, London, S.W.5, formerly Smith, Kline & French International Co.

FORMULA AND DESCRIPTION: A solution of calcium penicillin in a buffered solution of *p*-hydroxy-*a*-methylphenylamine with *o*-chloromercuriphenol 1:50,000 containing when first prepared, 2,400 units of penicillin per mil.

INDICATIONS: Sinus infections, rhinitis, nasopharyngitis, etc.

DOSAGE: For upper respiratory tract infections; three drops in each nostril three or four times daily.

HOW SUPPLIED: A container of (a) calcium penicillin, and (b) a buffered 1 per cent solution of *p*-hydroxy-*a*-methylphenylamine with *o*-chloromercuriphenol 1:50,000 in quantities so arranged that when (a) is dissolved in (b) a solution of the specified concentration of Pendex is produced.

NOTES: Tests have shown that Pendex at 65°F. contains at least 1,500 units per ml. after being stored at 65°F for one week.

CORRESPONDENCE

N.H.S. and Its Working

SIR,—The thought-provoking article of Hubert Blore, M.P.S., deserves the widest publicity. One aspect of N.H.S. seems, however, to have been passed over lightly in the article—the out-of-hours service (usually voluntary) given by contractors who live on the premises. Undoubtedly, this has contributed materially to the smooth working of the scheme. At the same time, the suggestions regarding night service put forward by Mr. Blore should be carefully considered and, where practical, acted upon.

SOUTH STAFFS.

SIR,—The article by Mr. Hubert Blore (*C. & D.*, April 1, p. 408) was a reasoned and timely review of the present situation under the National Health Service. Of particular interest to me were his comments on the lack of an efficient night service. The absence of such a service undoubtedly causes dissatisfaction among patients residing long distances from the few night pharmacies in being, and a scheme such as Mr. Blore suggests would certainly enhance the prestige of pharmacy and might even impress favourably the "powers that be." I had first-hand experience of a similar scheme in the International Zone of Tangier during the years 1935-42. In 1935, the pharmacists of that Zone were approached by the Ministry of Health to suggest a means of providing an emergency service after normal closing hours. After discussions between the parties, a Syndicate of Pharmacists was formed which embraced twelve of the thirteen practising pharmacists in Tangier. A scheme was drawn up, submitted to and approved by the Ministry. Briefly the constitution was as follows:—Each pharmacist subscribed a sum of Frs. 1,000 while the Ministry contributed a further Frs. 10,000 (per annum) towards the establishment and upkeep of a "Pharmacie d' Urgence." Premises were secured in a central position, inexpensively fitted, but well stocked. By agreement with the Ministry of Health, it was not thought necessary to employ a full-time pharmacist and a "preparateur" (qualified dispenser) was engaged. He was placed under the supervision of a pharmacist who paid frequent visits during opening hours on a weekly rota basis. Hours of opening were 9 p.m. to 8 a.m.—Sundays 9 a.m. to 12 noon. Doctors were very

co-operative, and displayed notices (supplied by the Syndicate) prominently in their surgeries, giving details of the service. I wish to make it clear that no National Health Scheme exists in Tangier, and all prescriptions were "private." A surcharge of 50 per cent. was made on the existing scale of dispensing fees for a prescription dispensed after normal closing hours. After a year's trial the scheme was pronounced by the public and doctors alike a complete success. Pharmacists, too, were gratified with the results, since there is no early closing day in Tangier, and previous to the scheme all pharmacies felt obliged to open for several hours on Sundays. In 1937 the scheme was extended to include collective buying for the Syndicate members, and on the outbreak of war, a pool of drugs and specialities in short supply was established on which members could draw as required. I had the honour to be president of the Syndicate for the years 1939-41 and can testify to the value of the goodwill created by the service. To those sceptics who feel like saying "such a scheme would never work here owing to divergence of opinion among pharmacists" may I say to them—our Syndicate in Tangier included pharmacists of five nationalities. It worked and worked well.

MOGHREL.

Election Candidates' Thanks

SIR,—Would you, through *THE CHEMIST AND DRUGGIST*, express my thanks to members of Southern Division 2 who made my success at the recent National Pharmaceutical Union election possible and thus once again secured representation of the area by a pharmacist actively engaged in business within the area.

Cheltenham,

W. TALVAN REES.

SIR,—I would appreciate the opportunity of expressing my grateful thanks to the National Pharmaceutical Union members who supported my candidature for the Executive at the recent election. I will do my utmost to be worthy of the confidence placed in me. I am grateful for the opportunity accorded to me to work for the benefit of all members of the N.P.U. and, in particular, for those who I have been elected to represent.

London, N.15.

ALLEN ALDINGTON.

ITALIAN CHEMICAL INDUSTRY IN 1949

SOME of the difficulties confronting the Italian chemical industry during 1949 and the degree of success achieved in overcoming them in the pharmaceutical and allied branches are described by Leo Vidotto (*La Chim. e l'Ind.*, 1950, **32** (1), 38-40). The principal difficulties are in five categories: Non-co-operation by many of the workers during the first half of the year; crisis in the electric power supply, both in the hydro-electric and coal-fired power stations, the former largely due to lack of rainfall—unprecedented for more than a century; devaluation of the £; uncertainty caused by proposed plans for a Western European Customs Union with its free trade, central bank, and common monetary system, etc.; and a general fall in prices, with some exceptions, especially in oils and fats, enhanced in the case of Italian olive oil by an abundant harvest in 1949-50 (160,000 tons, against 97,500 tons in 1948-49). The difficulties through uncertainty caused by attempts to fall in line with the O.E.E.C. proposals for a customs union are held to be very real, and are emphasised at some length. They arise, in part, at least, from Italy's serious handicaps in respect of fuel and raw materials, lack of research facilities, and of sufficient highly trained scientists.

State Control of Prices

In the pharmaceutical section of the chemical industry, including medical specialties, price-fixing by the State of certain products has proved onerous. Prices have been fixed at twenty-five to thirty times those of pre-war costs, whereas raw material, labour and transport have increased fifty- to sixty-fold. For new products, the price level is determined by the High Commission for Health and Hygiene on the basis of analytical documentation showing costs, to which may be added 12 per cent. for profit. With this irksome form of control in operation it has sometimes proved impossible to place new products on the market. It is extremely difficult, not to say impossible, for manufacturers of drugs and medicinals to provide a reliable analysis of costs either of raw materials or of labour.

In addition, there has to be included the heavy cost and burden of research, of patents, etc., which are particularly complicated and difficult in the pharmaceutical industry. The author also mentions technical propaganda, which requires close

collaboration with the medical profession. If some of the new products were charged in accordance with their costs, including advertisement and propaganda, their prices would have to be set at prohibitive levels. The only way to sell, in such instances, is apparently to increase prices of other products in order that the former may be brought within reach of the public.

Lack of Capital for Research

The Italian people and government doubtless desire that their pharmaceutical manufacturers should be in a position to compete effectively with the leading producers of the world, but they overlook the enormous differences in resources and standards of research between the United States, for example, on the one hand, and Italy on the other. It is not easy in an impoverished country to invest vast sums in research around one single product, as is the practice of leading firms in America. If such American products are imported into Italy, how can home firms compete? Recently the trade name Chloromycetin to give an actual example, has been registered in Italy by the U.S. maker as the product placed on the market at 12,000 lire per container of twelve capsules (each of 0.25 gm.). It is, says the writer, impossible for Italian firms to compete at such a price, high though it be.

On the other hand, P.A.S. (*p*-aminosalicylic acid) which a short while ago was selling at 65,000 lire per kilo, is today owing to competition from Italian material down to a price of 16-18,000 lire. This latter price is below the general level of foreign quotations and large exports have been sold to many areas, including the United Kingdom, North and South America, the Far East, etc. Even so, one large Italian producer of P.A.S. does not export half his output. Folic acid of Italian manufacture is exported to the extent of 90 per cent. of output to North American markets, and the amino acid, asparagin, up to 95 per cent. of production. These examples, however, are exceptional. In general, the Italian manufacturer of fine chemicals pays more for his raw materials than the international average. As between France and Italy, for example, Italy's costs under this head are at least 25 per cent. higher than those of her neighbour; compared with the U.S.A., the difference is even greater. Many products have therefore to be imported.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, April 12

AFTER the Easter holiday the markets generally reopened quiet and steady. In PHARMACEUTICAL and FINE CHEMICALS there are few price movements to record. Makers of BISMUTH SALTS advise a reduction in prices as from April 11, while SILVER NITRATE is fractionally easier following a reduction in the price of metal. Trading in CRUDE DRUGS continues on a routine level at late prices. There is rather more inquiry for GUM ACACIA. No appreciable change is reported in WAXES although holders are inclined to shade prices. The recent decline in SHELLAC prices has been halted and spot business, although small, has been done at slightly higher levels. COD-LIVER OIL producers have increased prices of B.P. quality by one shilling per gallon. In SPICES, Zanzibar CLOVES and African GINGER are firmer markets. ESSENTIAL OILS are dull, with little consumer interest. Prices of CLOVE, EUCALYPTUS, LEMON and the Réunion oils are firmly maintained; in other directions the markets are easier in tone.

Some recent importations of TEASEED OIL have been found to contain other oils, such as groundnut oil, coconut oil, palm oil or palm kernel oil. After consulting the Board of Trade, the Ministry of Food announces that such mixtures are not covered by open general licence and are, moreover, subject to restrictions on sale under the Oils and Fats (No. 2) Order, 1949. Hitherto the Ministry has given authority for shipments of mixed oil imported in good faith as teaseed oil to be disposed of through usual commercial channels. Such authority, however, will not be granted in respect of any future imports. Special arrangements are being made with H.M. Customs and Excise, to certify that goods entered as teaseed oil fully conform to that description.

S. Drug and Chemical Report

New York, April 6

CONDITIONS in PHARMACEUTICAL and FINE CHEMICALS markets show little change. It is understood, however, that demand for PENICILLIN has improved following the recent reduction in prices. SANTONIN is in good inquiry but there are no supplies available. No outstanding developments have occurred in the CRUDE DRUGS market, but ERGOT prices have been moved up further while GUM ACACIA is available at slightly lower levels. There are usually no stocks of ergot available here and the new price of \$4 per lb. is normal. Amber sorts of gum acacia are offered at 11½ cents per lb. by some holders who appear to be trying to reduce their stocks. Trade circles say that Cape

ALOES may go up in price shortly because of firmer reports from the source. BALSAM TOLU is 25 cents per lb. dearer at \$2.65. COPAIBA BALSAM has been increased in price by some holders. Stocks of BOTANICAL DRUGS in the U.S. are lower than at any time since the end of the war, according to a survey conducted by the trade. The new domestic collecting season is to hand and prices paid to collectors are expected to be fully up to last season's levels. A feature of the WAXES market has been a break in CARNAUBA prices—to below the minimum levels fixed for Brazilian exports. No. 1 yellow is being offered on spot at \$1 per lb. (a 10 cent reduction), whereas the minimum export price in Brazil is \$1.09, f.o.b., to which freight costs must be added. The No. 2 N.C. material is offered at 78 cents against 83½ cents; and the No. 3 N.C., at 75 cents, against 80½ cents. The "Journal of Commerce" says that the downward trend in the U.S. market for the wax is attributed to recent barter deals. Although MENTHOL prices are well over \$10 per lb. on spot, Chinese material for June-July arrival is quoted at \$9.90, inclusive of duty. A number of ESSENTIAL OILS have declined in price. LEMONGRASS is down to \$2.25 per lb.; CARAWAY is available at \$3.35, against \$3.55 previously. Quotations for SPEARMINT declined but a recovery was made later in the week. BERGAMOT and LIME oils are firmer markets.

Exchange Rates on London

Rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97½—97½
*Amsterdam ...	Florins to £	10.63—10.65
*Australia ...	£A to £	125—125½
*Bombay ...	Shillings to rupee	1/5 15/16—1/6 1/16
Brussels ...	Francs to £	139.90—140.10
Copenhagen ...	Kroner to £	10.32—10.36
Dutch East Indies	Florins to £	Suspended
Dutch West Indies	Florins to £	5.27½—5.29
*Hong Kong ...	Shillings to \$	1/2 13/16—1/2 3/8
*Israel ...	£I to £	99½—100½
*Karachi ...	Shillings to rupee	2/1 3/8—2/1 15/16
Lisbon ...	Escudos to £	80.35—80.75
Manilla ...	Peso to £	5.60—5.65
Montreal ...	Dollars to £	3.07½—3.08½
New York ...	Dollars to £	2.79½—2.80½
*New Zealand ...	£NZ to £	100½—101
Oslo ...	Kroner to £	19.98—20.02
Paris ...	Francs to £	979—981
Rio de Janeiro	Cruzeiros to £	Braz a/c
*Singapore ...	Shillings to £	2/4½—2/4 15/16
Stockholm ...	Kronor to £	14.47—14.50
*Teheran ...	Rials to £	89.40—91.00
Zurich ...	Francs to £	12.23—12.26

*Free market rates; remainder Bank of England fixed rates.

Pharmaceutical Chemicals

BISMUTH SALTS.—Makers announce a reduction in prices. New rates for CARBONATE, which came into force on April 11, are as follows:—

QUANTITY	CONTAINERS		
	1-lb.	7-lb.	28-lb.
	s. d.	s. d.	s. d.
1 cwt.	17 5	17 2½	17 1
28 lb.	17 8	17 5½	17 4
7 lb.	19 3	19 0½	—
4 lb.	19 11	—	—
1 lb.	20 6½	—	—

CITRATE is 3s. 3d.; SALICYLATE, 2s. 6d.; SUBGALLATE, 2s. 2d. and SUBNITRATE, 2s. 1d. per lb. less than above rates.

α-BROMISOVALERYLUREA. — Quotations are from 40s. 6d. to 47s. 6d. per lb.

CAFFEINE. — Makers' home-trade prices for 1-cwt. lots are (per lb.) as follows:—ALKALOID, B.P., 37s. 6d., and anhydrous, 39s.; CITRATE, B.P.C., 21s. 6d.; SODIUM BENZOATE, B.P., 23s. 6d.; SODIUM SALICYLATE, B.P.C., 24s. 6d. CAFFEINE and SODIUM IODIDE is 30s. per lb.

CREAM OF TARTAR. — Makers' rates for the home trade are: 10-cwt. lots, 148s. per cwt.; 5-10 cwt., 149s.; less than 5 cwt. and more than 2 cwt., 150s.; 1-2 cwt., 152s., delivered.

CREOSOTE.—B.P. quality, ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per lb.

CYCLOBARBITONE. — Makers' prices are from 165s. to 185s. per kilo. The CALCIUM derivative is available at the same prices.

EMETINE.—The HYDROCHLORIDE in 32-oz. lots is 215s. per oz.; 16-oz., 217s. 6d.; 4-oz., 220s.; 1-oz., 227s. The BISMUTH IODIDE in 32-oz. lots is 112s. per oz.; 16-oz., 113s. 6d.; 4-oz., 115s.; 1-oz., 116s. 6d. PERIODIDE is quoted at 190s. per oz. in 16-oz. lots; under 16 oz., 195s. per oz.

EPHEDRINE.—Makers' rates per oz. are as follows:—ALKALOID: 1 oz., 13s. 3d.; 16 oz., 13s.; 25 oz., 12s. 9d.; 50 oz., 12s. 6d.; 100 oz., 12s. 3d. HYDROCHLORIDE and SULPHATE: 1 oz., 9s. 3d.; 16 oz., 9s.; 25 oz., 8s. 9d.; 50 oz., 8s. 6d.; 100 oz., 8s. 3d. Assorted contracts may be booked for quantities of not less than 100 oz. over six months. Containers: 50-oz. or more, free; 50-oz. lots carriage paid.

HYOSCINE HYDROBROMIDE. — An easier market. Quotations are from 100s. to 115s. per oz., according to quantity.

JODOPHTHALEIN. — Quotations are from 52s. 6d. to 60s. per lb. as to quantity.

KAOLIN.—In 1-cwt. bags, LIGHT is quoted at 56s. per cwt., and HEAVY at about 32s. 6d. per cwt.

MAGNESIUM CARBONATE.—Rates per cwt. for LIGHT, B.P., are as follows: Not less than 1 cwt., 115s. 10d.; 5-cwt. lots, 110s. 10d.; 10-cwt., 109s. 10d.; 1-ton, 108s. 10d.; in 28-lb. parcels, delivered in the U.K. Scheduled rates per lb. in the home market for quantities of 28 lb. to

under 1 cwt. are: 1s. 3d. (28-lb. containers); 1s. 4d. (14-lb.); 1s. 4½d. (7-lb.) 1s. 6d. (2-lb.); 1s. 7d. (1-lb.).

MAGNESIUM HYDROXIDE, B.P.C.—Maker price for 1-cwt. lots is 3s. 5d. per lb.

MAGNESIUM OXIDE. — Cases containing 56 lb. in bulk of HEAVY, B.P., are at the rate of 4s. 1d. per lb. (56 lb. in 1-lb. containers are 5s. 3d. per lb.). LIGHT, B.P. in bulk is from 2s. 7d. to 2s. 10d. per lb. and from 2s. 11d. to 3s. 2d. in 1-lb. containers, as to quantity; smaller quantities (28-lb. but less than 1-cwt.) are from 3s. 5d. to 3s. 9d. per lb., as to pack.

OLEIC ACID. — Dearer. B.P. in 1-cwt. lots is 150s. per cwt.

ORTHOCAINE.—Quotations are from 120 to 125s. per lb., as to quantity.

OXALIC ACID.—In 4-ton lots, prices are £130 10s. per ton in casks and £134 10s. in kegs; contracts, £128 and £132 per ton respectively. 2 tons and less than 4 ton £1 per ton more; 1 ton, £2; 10 cwt., £5 5 cwt. and under, £12 more than the foregoing rates.

PEPTONE. — Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHENAZONE.—Prices quoted for British made and imported material range from 22s. 6d. to 25s. per lb.

PHENOBARBITONE. — Home-trade prices are unchanged at from 35s. per lb. upwards, according to quantity.

PHENOLPHTHALEIN.—1-cwt. lots are now 7s. 7d. per lb.; 28-lb., 7s. 7d.; 14-lb., 8s. and 7-lb., 8s. 3d. per lb.

PHENYLACETIC ACID.—1-cwt. lots are now quoted at 5s. per lb.; smalls, up to 5s. 9d. per lb.

PHENYTOIN SODIUM. — Quotations for small quantities are at about 32s. 6d. per lb.; the base is available at the same price.

PIPERAZINE.—Imported material is offered at from 110s. to 120s. per kilo (smalls, 4s. 9d. to 5s. per oz.).

RESORCIN. — Current prices range from 11s. to 11s. 6d. per lb.; MONOACETATE, from 14s. 6d. to 17s. 6d. per lb., according to quality.

SANTONIN.—Nominal rates per kilo are 1-kilo lots, £64; 500-gm., £65; 250-gm. £66; 100-gm., £67; smaller quantities, £68.

SILVER SALTS.—NITRATE in 1,000-oz. lots is easier at 3s. 4½d. per oz. PROTEIN, B. (8 per cent.), in 14-lb. tins, is 36s. 3d. per lb. VITELLIN, B.P.C., 20 per cent., is 6 per lb. (14-lb.); 30 per cent., 88s. per lb.

STEARIC ACID.—B.P.C., 1934, quality offered at 170s. per cwt.; powder, 17 per cwt.

TEREBENE.—Carboy lots are now 3s. per lb.; 24 winchesters, 3s. 7½d.; 6 winchesters, 4s. 2d.; 1 winchester, 4s. 6d.

VANILLIN.—Rates per lb. are: 5-cwt. lots, 26s.; 1-cwt., 26s. 3d.; 56-lb., 26s. 6d. smaller quantities, 26s. 9d.

Crude Drugs

COD-LIVER OIL. — Prices of medicinal (B.P.) oil in bulk have been increased by one shilling per gall. as from April 11. New rates are as follows:—In 45-gall. drums, 12s. per gall., plus 30s. charge for landed drum; in 25-gall. drums, 12s. per all., plus 20s. for loaned drum; 5-gall. drums, 13s. per gall. (drum included and not returnable); 1-gall. tin, 13s. 6d.

CLOVES.—A firmer market. Zanzibar has been sold at 1s. 9d. per lb. on the spot; float, 1s. 7½d., c.i.f. Madagascar is quoted at 1s. 8½d. per lb., in bond.

GINGER.—Firm. African new-crop is valued at 310s. per cwt.; April-May, 290s., c.i.f. Jamaica No. 3, 260s. per cwt., spot; April-May, 340s. c.i.f.

HALIBUT-LIVER OIL.—Quotations are in the region of £19 10s. per gall. for B.P. quality.

IPECACUANHA.—Nicaraguan is offered at 1s. per lb.; April-May shipment, 35s., c.i.f. Colombian is steady at 32s. 6d. per lb., spot, and 30s., c.i.f., for shipment.

MENTHOL.—Brazilian on the spot is offered at from 84s. to 85s. per lb., duty paid; supplies in bond are quoted at 81s.; May-June Shipment, 67s. 6d., c.i.f. Chinese float is quoted at 82s. 6d. per lb., c.i.f.

NUTMEGS.—West Indian 80's quoted at 10d., on spot; sound assorted, 2s. 10d., spot. East Indian 80's offered at 2s. 10d. per lb., c.i.f. Continent.

OLIBANUM.—Good drop is quoted at from 10s. to 225s., and medium drop at 190s.; as are 200s.; fair garblings, 125s., sifts are dearer at 110s. per cwt., spot.

ORANGE PEEL.—Thin cut Tripoli is quoted at 1s. per lb., duty paid, spot; bitter cutters are 1s. 3d. per lb., duty paid.

PERRIS ROOT.—Verona is quoted at 70s. per cwt., ex wharf London.

PIMENTO.—Spot quotations are from 5½d. per lb.; for shipment, 168s. 6d., c.i.f., quoted.

PODOPHYLLUM.—Indian (*emodi*) on the spot is from 320s. to 330s. per cwt., as test. American (*petitum*) is nominal at about 280s. per cwt., spot.

QUASSIA.—Steady. Chips on the spot are quoted at from 32s. to 35s. per cwt., c.i.f.

QUILLARIA.—Natural bark on the spot is 1s. per cwt.; to arrive, 140s., c.i.f.

QUINCE SEED.—Cape on the spot is quoted at about 2s. 6d. to 2s. 9d. per lb.

SEEDS.—During the past week very little business has been reported. **ANISE.**—Turkish is 155s. per cwt., in bond and 165s. per cwt., duty paid; Egyptian is 150s. per cwt., in bond, all spot London. **CARAWAY.**—Dutch is offered at 122s. 6d. per cwt., duty paid, spot London. **CELERY.**—Indian is quoted at 1s. 10d. per lb.; French is offered at 225s. per cwt., duty paid; all spot

London. **CORIANDER.**—Market unchanged. Morocco on spot is 105s. per cwt., in bond, and 110s. per cwt., duty paid. A little Argentine is offering at 100s. per cwt., duty paid, spot London. **CUMIN.**—Morocco is offered at 165s. per cwt., in bond, and 175s. per cwt., duty paid, in London. **DILL.**—Indian is unchanged at 62s. 6d. per cwt., spot London. **FENNEL.**—Market firm. Indian nominal at 95s. per cwt., spot London. **FENUGREEK.**—Morocco is 55s. per cwt., duty paid in Liverpool, and 57s. 6d. per cwt., duty paid, spot London; Indian is 62s. 6d. per cwt., in London.

SHELLAC.—A steadier market. Spot quotations for F.O.T.N., pure, are 247s. 6d.; F.O. Standard 1, 262s. 6d.; fine orange, 300s. to 360s. per cwt., ex warehouse London.

VALERIAN.—Spot quotations are from 195s. to 215s. per cwt. for Belgian root.

Essential and Expressed Oils

CITRONELLA.—Ceylon is steady at from 7s. 6d. per lb., spot; April-May shipment, 7s. 3d., c.i.f. Java is valued at 18s. 6d. per lb., spot; for shipment, 14s. c.i.f.

LEMONGRASS.—Spot quotations are from 13s. 9d. per lb., spot; for shipment, 13s., c.i.f.

LIME.—West Indian on spot is offered at from 49s. to 51s. per lb.

PATCHOULI.—Very quiet. Singapore is quoted at 135s. per lb., spot; shipment, 115s., c.i.f. Seychelles, 125s. per lb., spot; 112s., c.i.f.

PALMAROSA.—Spot values are from 50s. per lb.; for shipment, 47s., c.i.f.

PEPPER.—Java, from black pepper, is firm at from 308s. to 325s. per lb., duty paid; forward, 276s. 6d., c.i.f.

PETITGRAIN.—Paraguayan is quoted at from 14s. 6d. to 16s. per lb., spot.

PIMENTO BERRY.—English-distilled oil, from 67s. 6d. to 70s. per lb. and upwards as to quantity.

PINE.—*Pumilionis*, about 16s. to 17s. per lb., spot; *syvestris*, from 8s. 6d. to 10s.

PINE NEEDLE.—First-grade on the spot is quoted at from 14s. to 16s. per lb.

ROSE.—Bulgarian is nominally quoted at from 260s. to 300s. per oz., and Anatolian at 260s. per oz., both spot London. Other grades are available from about 190s. per oz. Market quiet.

ROSEMARY.—Spanish on spot is offered at 7s. 6d. to 8s. 6d. per lb., as to grade.

THYME.—Steady. Red oil (40-42 per cent. phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

VETIVER.—Bourbon on spot is quoted at 90s. to 95s. per lb., as to grade.

YLANG YLANG.—Bourbon on the spot is quoted at from 65s. to 70s. per lb., according to grade.

COMING EVENTS

Monday, April 17

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Red Cross Rooms, Hackins Hey, Liverpool, at 7.45 p.m. Six short lectures by members.

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Dorset Café, Ocean Road, South Shields, at 7.30 p.m. Talk by Mr. Cowan (of Durham Pricing Bureau).

WEMBLEY CHEMISTS' ASSOCIATION, Wembley Town Hall, at 7.45 p.m. Annual meeting.

Tuesday, April 18

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Midland Hotel, Bradford, at 7.45 p.m. Annual meeting.

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fuller's Café, Harrogate, at 7.30 p.m. Mr. R. W. Gillham, Ph.C., on "Pages from an Analyst's Notebook."

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, Hounslow, at 8 p.m. Film: "Vitamin B Complex" and lecture by Mr. W. J. C. Hodges (Eli Lilly & Co., Ltd.).

MANCHESTER PHARMACEUTICAL ASSOCIATION and BRANCH, Council Chamber, Houldsworth Hall, at 7.45 p.m. Annual meetings and address by Mr. H. Steinman.

WEST MIDDLESEX CHEMISTS' ASSOCIATION, Y.M.C.A., Bond Street, Ealing, London, W.5, at 8 p.m. Annual meeting.

Wednesday, April 19

CHESTERFIELD BRANCH, PHARMACEUTICAL SOCIETY, Royal Hospital, Chesterfield, at 8 p.m. Address by Alderman W. T. Tristram, J.P. (a member of Council).

CREWE AND MID-CHESHIRE BRANCH, NATIONAL PHARMACEUTICAL UNION, Royal Hotel, Crewe, at 7.30 p.m. Inaugural meeting. Mr. R. H. Kemp, Ph.C. (assistant secretary, N.P.U.) on "Pharmaceutical Prospects."

Thursday, April 20

BRIGHTON AND HOVE ASSOCIATION OF PHARMACY, Assembly Hall, Brighton Technical College, at 8.30 p.m. Discussion on "Surface Active Agents in Medicaments for External Use" initiated by Dr. E. Colin Jones and Mr. H. B. Mackie, B.Pharm., Ph.C. (joint meeting with local division of the British Medical Association).

SOMERSET BRANCHES, NATIONAL PHARMACEUTICAL UNION and PHARMACEUTICAL SOCIETY, Bekington Restaurant, The Square, Wells, at 3.30 and 5.30 p.m. Annual meetings. At 7 p.m. combined meeting. Address by Mr. T. Heseltine, M.P.S.

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, and SOUTH-EASTERN ASSOCIATION, Langley Rooms, Green Man Hotel, 359 Bromley Road, London, S.E.6, 7.30 p.m. to midnight. Dance in aid of Society's Benevolent Fund.

THAMES VALLEY DISTRICT PHARMACISTS' ASSOCIATION, Kingston Hotel, Kingston-on-Thames, at 7.45 p.m. Annual meeting. Mr. H. S. Saunders on "The Assessment of Your House and Business Premises under the New Act."

WIMBLEDON PHARMACISTS' ASSOCIATION, Wimbledon Town Hall, at 7.45 p.m. Annual meeting and film show ("Take Thou," "Penicillin," and other films).

Friday, April 21

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, Hulme Hall, Port Sunlight, 8 p.m. 1 a.m. Carnival dance.

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, 7 p.m. Members' night.

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, King's College (large anatomy lecture theatre), Strand, London, W.C.2, at 7.30 p.m. Dr. L. P. Walls, M.A., A.R.I.C., on "Chemistry of Trypanocides," and annual meeting.

IRISH CHEMISTS' GOLFING SOCIETY is to hold its annual three-day outing at Killarney golf club May 22-24. The competition between the Society and the Ulster Chemists' Golfing Society will be held at Dundalk on June 21.

SOUTH-WEST LONDON CHEMISTS ASSOCIATION is arranging conducted rambles in conjunction with British Railways, on certain Sundays, under leadership of Mr. Stanley Robinson (secretary, Metropolitan Branch, Pharmaceutical Society).

TRADE MARKS

(From "The Trade Marks Journal," March)

For insecticides, weed-killers, fungicides, acaricides (5).—"DENOTOX" (in distinctive lettering); by Pest Control, Ltd., Bourn; 685,043.

For non-medicated paper facial cleaning tissue (16).—"PLAYTEX"; by International Latex Corporation, Dover, U.S.A.; 669,975.

For powder puffs (21).—"MARKSMAN"; T. R. Judson & Co., Ltd., Manchester; 685,171.

(From "The Trade Marks Journal," April 5)

For all goods excluding adhesives for boot shoe manufacture (1).—"BOOTS"; by Boots Pharmaceutical Co., Ltd., Nottingham; 679,175.

For industrial, agricultural and horticultural chemicals (1).—"BISOLITE"; by British Industrial Solvents, Ltd., London, S.W.1; 681,258.

For industrial, scientific, photographic and cultural chemicals and manures (1).—"HEF" (on seal device); by Heroya Elektrokjemiske Fabrikker, Oslo; 681,979.

For all goods (3).—"HEFA" (on seal device); by Heroya Elektrokjemiske Fabrikker, Oslo; 681,980.

For detergents (3).—"SABLE," "STELL," "WIZARD"; by Industrial Soaps, Ltd., London, S.E.1; 684,048-52.

For soaps (3).—"SYMBOL"; by Industrial Soaps, Ltd., London, S.E.1; 684,051. "DAVOIL"; Davis Products, Ltd., Whitchurch; 684,547.

For non-medicated toilet preparations (3).—"SIERRA"; by Goya, Ltd., London, W.1; 684,777. "MOOD INDIGO"; by R. Demuth, Ltd., London, N.W.6; 685,185. "BANDOLUX"; by Ashe Laboratories, Ltd., London, S.W.1; 685,708.

For perfumes and toilet waters (3).—"CIVETTE"; by Goya, Ltd., London, W.1; 684,792.

For laxative preparations (5).—"LAXATOL"; Boraline, Ltd., Leeds; 662,792.



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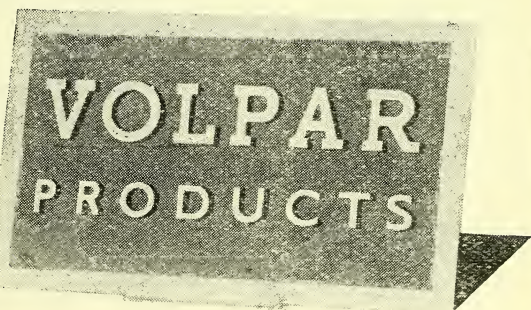
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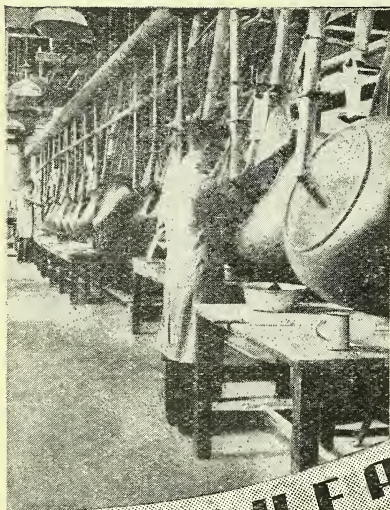


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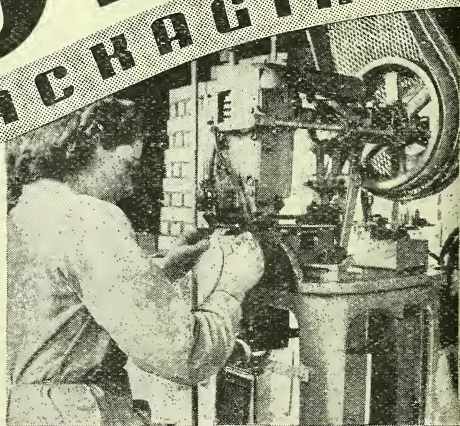
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ONLY 29/9 Leather Purse Case 4
In attractive display box containing 3 meters

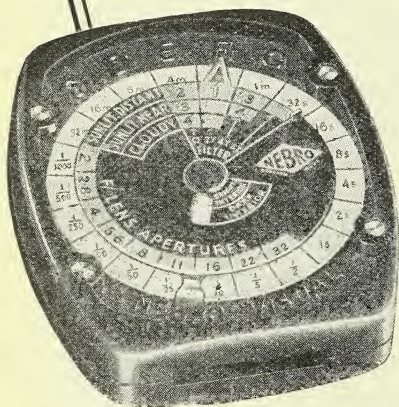
NEVILLE BROWN & CO. LTD.

Distributors to the Photographic Trade
NEWMAN YARD · NEWMAN ST. · LONDON W

Also available through these Provincial Wholesalers:

SOUTHALL BROS & BARCLAY (1935) LTD.,
BIRMINGHAM

BROOKS, PARKER & CO. LTD., BRADFORD
JAMES WOOLLEY SONS & CO. LTD.,
MANCHESTER



One of the most sensitive meters

Simple one-hand setting

Scaled from 1/1000 sec. to 32 min.
for lens apertures f/2 to f/32

Operates under any conditions
of light

Weighs less than 2 ozs.

Costs less than a dozen films

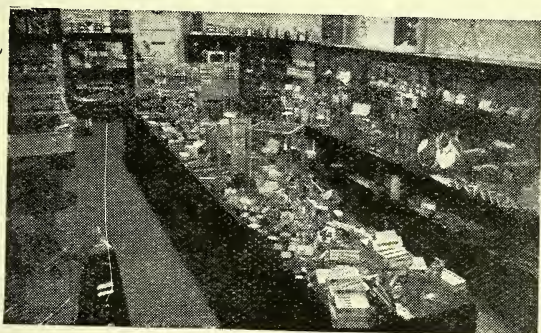


SEE US AT
OLYMPIA
STAND
C.105

MAY 6-19

You are invited to visit
MAW'S EXHIBITION
of
SPRING & SUMMER LINES

now being held at their
LONDON SHOWROOM
67/68 Jermyn Street, Piccadilly, S.W.1
(opposite Apps, Thatcher & Co., Chemists)



Our 1950 Display is the finest we have had for many years. It includes the most up-to-date Merchandise for Spring and Summer selling in addition to a full range of Chemists' ordinary stock lines. We hold ample stocks and can offer prompt and full delivery of your orders.

WHEN YOU ARE IN TOWN BE SURE TO CALL
IN — YOU WILL BE CORDIALLY WELCOMED.

A phone appointment will help—WHITEHALL 5255.

S. MAW, SON & SONS, LTD., BARNET, HERTS.

THE HOUSE OF *FIRSTS*

First with make-up for the motion picture studios

First to feature cosmetics as "make-up"

First to feature Hollywood screen stars in cosmetic advertising

First with Colour Harmony Make-up

First to classify and originate the name "brownette"

First to introduce "Personalized" Christmas Gift Sets for Blondes, Brunettes, Brownettes and Redheads

First to introduce a new and utterly different cosmetic fashion — "Pan-Cake" Brand Make-up

First to introduce a new make-up for Technicolour motion pictures

First to introduce the new lipstick idea — 3 shades for each type—Clear Red, Blue Red and Rose Red

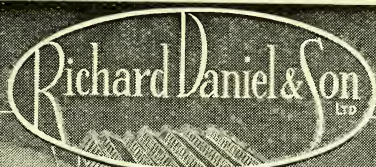
First with 3 rouge shades for each type—new pastels in Clear Red, Blue Red and Rose Red

First to originate new exclusive patented lipstick colour formula

First with the new colour tones — Amber — in "Pan-Cake" Brand make-up and Face Powder. Colour harmonized to natural skin tones.

Max Factor HOLLYWOOD

MAX FACTOR HOLLYWOOD & LONDON (SALES) LTD
16 OLD BOND STREET, LONDON. W.1



PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)



Dye Selling made Easy

AND STOCK RECORDING SIMPLIFIED
WITH THE UNIQUE AURORAL "SERVE YOURSELF"
COUNTER DISPLAY CABINET

Your customers can now see at a glance the exact shade
of Auroral Dye required and obtain it from the well
indexed divisions of the cabinet without troubling you.

The Cabinet supplied FREE with 1 gross orders in any
assortment you desire.

Order Forms with full list of colours supplied on request.

Price 4/- per dozen, less 5% for cash in 7 days.

Retail—(P.A.T.A.) 6d. per packet.

AURORAL
COLD WATER DYES

WHITAKER & CO. (Kendal) LTD.

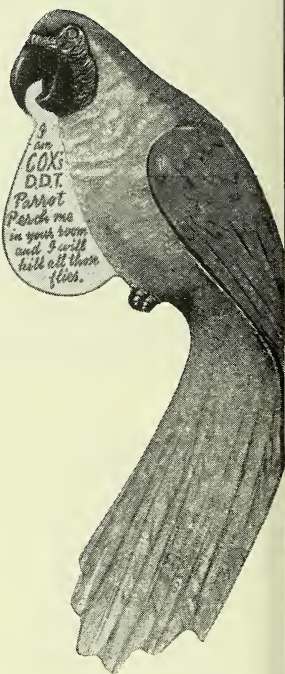
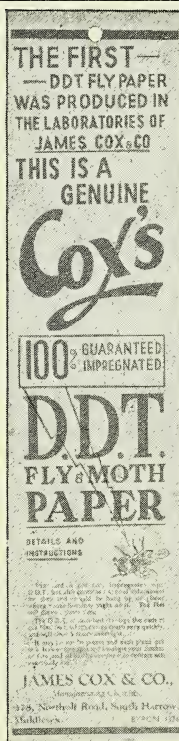
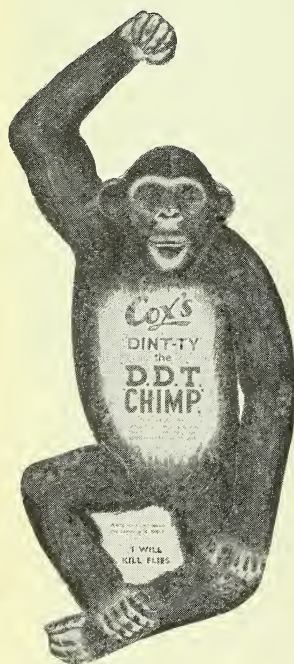
Dye & Chemical Manufacturers, Kendal.

See your order
OW and make sure of
OUR counter attraction.

COX'S D.D.T. CARDS

ARTISTIC EFFECTIVE THE BEST

THEY DO KILL FLIES



COX'S D.D.T. CHIMP

RETAIL **3^D** EACH

WHOLESALE 24/- PER GROSS

COX'S ORIGINAL FLYPAPER

RETAIL **3^D** EACH

WHOLESALE 24/- PER GROSS

COX'S D.D.T. PARROT

RETAIL **4^D** EACH

WHOLESALE 32/- PER GROSS

Generous terms to Wholesalers, Factors, etc., upon application

ALL ACCOUNTS LESS 2½% — 30 DAYS

OVER 12,000 PHARMACISTS STOCK COX'S D.D.T. CARDS

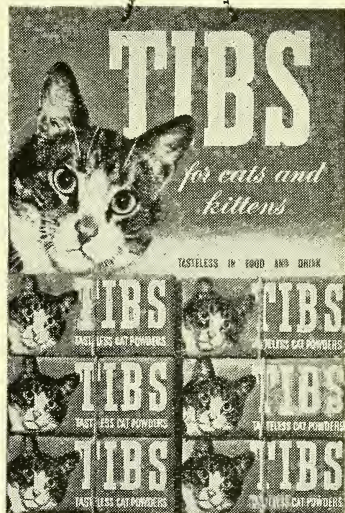
Because they are guaranteed 100% impregnated and have a TWO YEAR-LIFE . . . Not merely surface coated

Obtainable from all leading Wholesalers, or direct from

James Cox & Co.

D.D.T. WORKS, NORTHOLT ROAD, SOUTH HARROW, MIDDLESEX

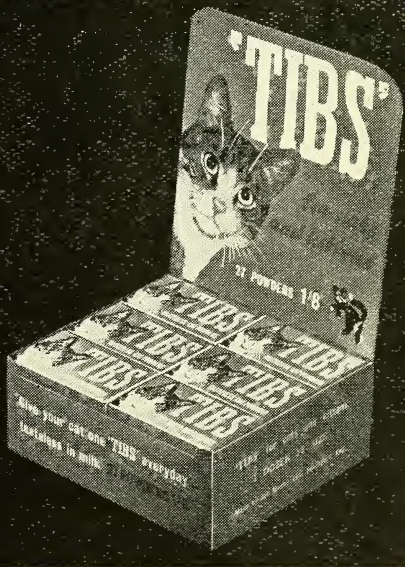
Telephone : BYRon 4326



ARE THEY WORKING FOR YOU?

HERE are three examples of the display material that is helping chemists all over the country to tie up with 'Tibs' advertising and build steady repeat sales in a growing market.

Illustrated here are the new 'Tibs' Showcard (top left) available in two sizes, 15" x 10" and 9" x 6", the Hanging Card (top right) and Display Outer, which are both loaded with packs to help you sell them. Send your order in NOW for 'Tibs' and state what size of Showcard you prefer.



GIVE TIBS A GOOD SHOW AND WATCH YOUR SALES GROW

WRITE TODAY TO BOB MARTIN LIMITED, DEPT. CD., SOUTHPORT, LANCASHIRE.



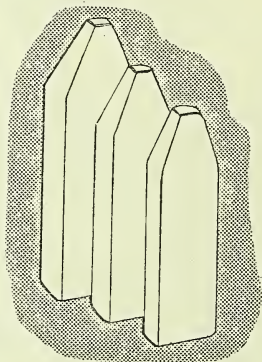
SO MUCH EFFECT - SO LITTLE COST

White Wrapping Paper

FOR BOTTLES

The nation's dispensing service is much in the public eye. It is good policy to retain in the service every feature that distinguishes pharmaceutical practice.

The white wrapped and sealed bottle is one of these features. It gives its own distinctive tone to the service. It imparts so much effect, yet costs so little.



For sizes 8oz. and 10oz. wrapping costs about ten sheets a penny.

White Demy, best dispensing quality.

Sizes	1oz.	2oz.	3/4oz.	6oz.	8/10oz.	12/16oz.
Per 500 sheets (approx.)	1/4	1/8	2/9	3/2	4/-	6/-

Powder Papers 4" x 4½" per 500 sheets, 10d.

No. 18 White Demy, 17½" x 22½" ... 14/- per ream. 9½d. quire.

Swedish brown kraft 20" x 30" ... 14/- per ream. 9½d. quire.

Swedish striped sulphite 20" x 30" ... 17/- per ream. 1/- quire.
(green and mauve)

Dispensing Twine (Red, Blue, Green)

4oz. balls 25/- per doz.

Sealing Wax

8oz. balls 50/- per doz.

3/9 per lb.

PROMPT ATTENTION GIVEN TO SPECIAL POST ORDERS

All orders Carriage Paid in Free Packages

MACDONALD & SON LTD.

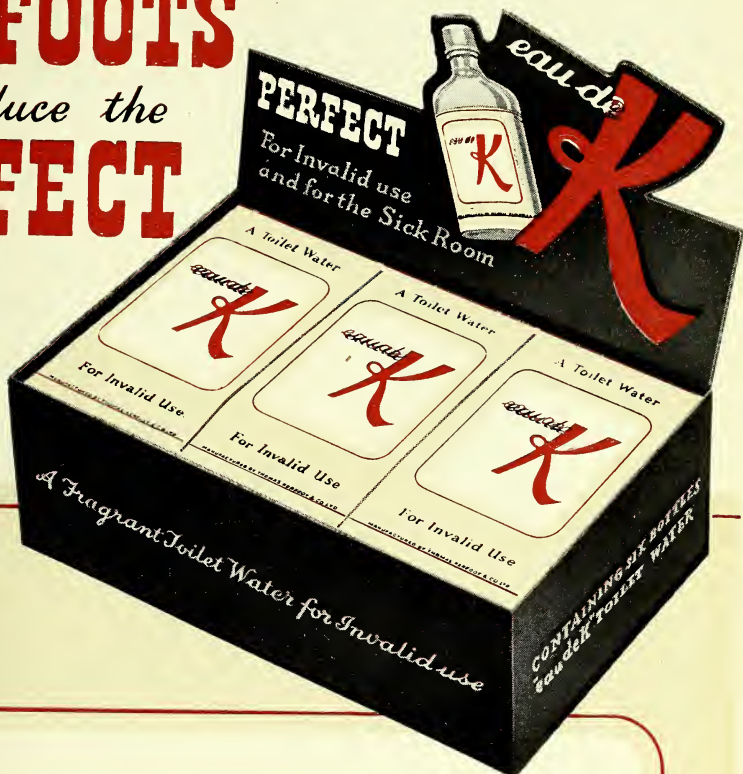
HOPE MILLS, POLLARD STREET, MANCHESTER, 4

Ardwick 1561-2

KERFOOTS

introduce the
PERFECT

*Toilet
Water*



An exquisite and refreshing Toilet Water for the sickroom, dispelling unpleasant odours from patient, bed-linen, dressings etc.

Ideal in feverish conditions and for headache.

Equally delightful for everyday use, its pervasive perfume retains its freshness — it never grows stale

RETAIL — 5/- incl. tax
Issued in outers of 6 bottles

eau de **K**

THOMAS KERFOOT & Co. Ltd
Vale of Bardsley, Lancashire
and Bardsley House, London, N.1



You pay only £8.15.0 for a
I.C.C £10 parcel



INTERNATIONAL CHEMICAL COMPANY LIMITED

Your profit is at least £4.11.8



I.C.C. Mixed Parcels carry extra discounts of $12\frac{1}{2}\%$ on parcels to the value of £10 and over, 10% on parcels to the value of £5 and over. These Co-operation Discounts are *in addition to the usual basic trade discounts.*

I.C.C. Products are nearly all household words — look at the list given on the right of this page. Because I.C.C. offers this great variety of quick-selling lines, every pharmacist can give a mixed order large enough to qualify for Co-operation Discount, with no risk of over-stocking.

Study our Price List, work out a parcel to suit your requirements and . . .

SEND YOUR ORDER NOW

* **Your Return . . £13.6 .8**

Your Outlay

(£10 less $12\frac{1}{2}\%$) £8.15.0

Your Profit . . . £4.11.8

All I.C.C. Products can earn extra Co-operation Discount

SELLING PRICE INC. TAX	PRODUCT	TRADE PRICE EX. TAX	TAX PER DOZ.
3/-	'Anne French' Cleansing Milk	14/4	14/4
1/8	'Anadin' Tablets 20s	12/-	4/-
3/4	'Anadin' Tablets 50s	24/-	8/-
1/9	'BiSoDoL' Powder	12/9	4/3
4/1	'BiSoDoL' Powder	29/3	9/9
1/4	'BiSoDoL' Tablets 30s	9/9	3/3
3/7	'BiSoDoL' Tablets 100s	26/-	8/8
1/9	'Bisurated' Magnesia Powder (Plain or Mint)	12/9	4/3
3/7	'Bisurated' Magnesia Powder (Plain or Mint)	26/-	8/8
1/9	'Bisurated' Magnesia Tablets 75s	12/9	4/3
3/7	'Bisurated' Magnesia Tablets 165s	26/-	8/8
1/10½	'Freezone' Corn Remover	13/6	4/6
1/3	'Kolynos' Dental Cream	9/-	3/-
2/2	'Kolynos' Dental Cream	15/9	5/3
1/3	'Kolynos' Denture Powder	9/-	3/-
2/2	'Kolynos' Denture Powder	15/9	5/3
1/6	'Kolynos' Denture Fixative	13/6	*
3/9	'Kolynos' Denture Fixative	33/9	*
2/6	'Kolynos' Shaving Cream	18/-	6/-
2/9½	'Lystone' Salts	19/9	6/7
1/11	'Pineate' Honey Cough-Syrup	13/9	4/7
1/10½	'Reudel' Bath Salts	13/6	4/6

*Exempt from P.T.



CHENIES STREET · LONDON · W.C.1

Addis REGD.
BEAUTY BRUSH

*gets big boost
 by leading
 mannequins!*



Susan Small's lovely Cherry Marshall is one of the team of leading mannequins sponsoring the Addis Beauty Brush in national magazines

Great campaign means year-round sales

Yes, London's loveliest mannequins are sponsoring the Addis Beauty Brush in big national magazine advertisements—which your customers are going to see and absorb. They'll be struck by Beauty Brush loveliness, impressed by its efficiency, amazed at its low price—and they'll buy! And demand is going to stay up—all the year round! Stock up with the Addis Beauty Brush now! 12/6 retail.



*It's lovely,
 it's efficient,
 it sells on sight*

*Stock and
 display the*



*all the
 year round*

Britain's

largest

producers of

ASPIRIN

This statement was made in 1939. It is still true. Our output to-day is many times greater than pre-war.

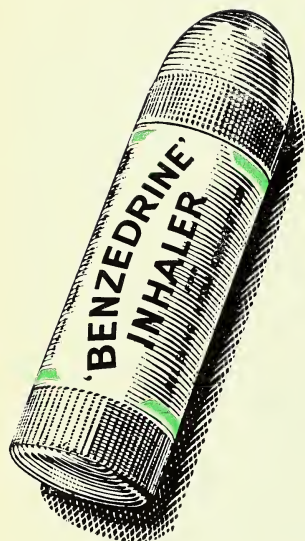
We are now able to offer Aspirin, Acetyl Salicylic Acid B. P. and also Salicylic Acid B. P., Sodium Salicylate B. P., Methyl Salicylate B. P. and Salicylic Acid (Technical) for regular delivery.

Please address your enquiries to the Sales Department.

*Write to Sales Department for Bulletin
"Chemicals for the Pharmaceutical Industry".*



MONSANTO CHEMICALS LIMITED
VICTORIA STATION HOUSE, LONDON, S.W.1



prompt relief

prolonged effect

● 'Benzedrine' Inhaler is
Tax free. Trade price 18/-
per doz. Retail price 2/- each.

► 'BENZEDRINE' vapour shrinks the swollen mucous membrane of the nose and thus relieves the heaviness, discomfort, and nasal congestion associated with colds, hay fever, sinusitis, etc. The effect lasts a full hour and makes frequent use unnecessary. Two sniffs through each nostril once an hour will ensure easy breathing through the nose. The effective life of 'Benzedrine' Inhaler is two to three months of average use. You should advise your customers to replace their 'Benzedrine' Inhalers when they fail to obtain relief, though there may still be a slight aromatic odour.

'BENZEDRINE'
a better means of nasal medication
INHALER

MENLEY & JAMES, LIMITED, 123 COLDHARBOUR LANE, LONDON, S.E.5
for Smith Kline & French International Co. owners of the trade mark 'Benzedrine'

NEW PRODUCT INFORMATION

trade
mark

'DISTAQUAINE' G

brand

Composition : crystalline penicillin G procaine plus a suspending agent.

Packings and Prices : rubber-capped injection-type vials of (a) 300,000 i.u. penicillin, boxes of 5 vials, 20s. 0d. (b) 900,000 i.u. penicillin, boxes of 5 vials, 42s. 6d.; subject to discount.

Immediate supplies are available from our Distributors :

Allen & Hanburys Ltd.
British Drug Houses Ltd.
Burroughs Wellcome & Co.
Evans Medical Supplies Ltd.
Imperial Chemical (Pharmaceuticals) Ltd.
Pharmaceutical Specialities (May & Baker) Ltd.
or from your usual wholesaler.

NOTES : 'Distaquaine' G, which is issued as dry substance, is designed to form a suspension on the addition of sterile distilled water or other suitable aqueous vehicle. The formula contains neither oil nor wax. Preparation of the suspension is simple and convenient and may be carried out extemporaneously by the physician. A single dose (300,000 i.u. penicillin) gives a prolonged depot effect and normally maintains an effective blood level during 24 hours.

Manufactured by

THE

DISTILLERS COMPANY (BIOCHEMICALS)
SPEKE LIMITED LIVERPOOL

*The Ideal
D.D.T. pack
for House &
Garden*



THE NEW PUFFERPACK—

Best and most economical method of distributing the powder evenly in any direction, even in the most awkward places.

AMOGAS
D.D.T.

Insect Powder

4 oz. 1/- Retail: 7/3 per dozen Trade

8 oz. 1/8 Retail: 12/6 per dozen Trade

Manufacturers:

THORNTON & ROSS LTD., HUDDERSFIELD





MAY

8-19

Britain has invited the World!

Preparations for this year's British Industries Fair began before B.I.F. closed in 1949. To build up the greatest commercial event of 1950 organization has been continuous.

DURING THE SUMMER

3,050 manufacturers applied for a million square feet of display space. Exhibitors in 90 trades were allocated to 32 groups of allied industries.

IN AUTUMN

120,000 buyers throughout the world began to receive personal invitations.

THROUGH THE WINTER

63 advertising campaigns were launched in 33 languages—and a special campaign was prepared in America.

IN THE NEW YEAR

27,000 advance *catalogues were sent exclusively to buyers abroad.

BY SPRINGTIME

10,000,000 pieces of printed information had been distributed within business communities overseas.



NOW—some 15,000 importers are travelling here to see what we can make.

Will you be there?

LONDON—Earls Court and Olympia. Weekdays 9.30 a.m.—6 p.m. Buyers Badges and *Catalogues, 2/6 each, obtainable only at Fair. Public admitted Saturday and Wednesday (May 13 and 17) 1/6 each building.

BIRMINGHAM—Castle Bromwich. Weekdays 9.30 a.m.—6 p.m. Buyers Badges and *Catalogues, 2/6 each, obtainable only at Fair. Public admitted daily from 2 p.m. (all day Saturday) 2/6.

DRUGS AND TOILET PREPARATIONS AT OLYMPIA

*A Name
and a
Standard*

" SURE SHIELD "

(Reg'd. Trade Mark)

BRAND

**IODISED THROAT
TABLETS**

**GLYCERINE of THYMOL
PASTILLES**

FRUIT LAXATIVES

**LOZENGES · PASTILLES
TABLETS**

In bulk and ATTRACTIVE PACKS

Thos. Guest & Co Ltd

Manufacturing Chemists

CARRUTHERS ST., MANCHESTER, 4

Tele. No.:
Collyhurst 2975

Telegrams:
"Guesto" Manchester

GLANOID

**FLAVOURED
ESSENCE OF
RENNET**

**RASPBERRY, STRAWBERRY,
LEMON, ORANGE,
VANILLA**

**1 OUNCE BOTTLES
sufficient for 8 pints of Junket
RETAIL**

2/3

PER BOTTLE

**JUNKET
TABLETS**

**Each Tablet Sufficient to Junket On
Quart of Milk**

**Packed in Boxes of 12 Tubes
Each Tube contains 16 Tablets
Retail Price 1/3 per tube**

**JUNKET
POWDER**

**Packed in Boxes of 12 Tubes
Sufficient in each Tube to Junket
16 Quarts of Milk**

Retail Price 1/3 per tube

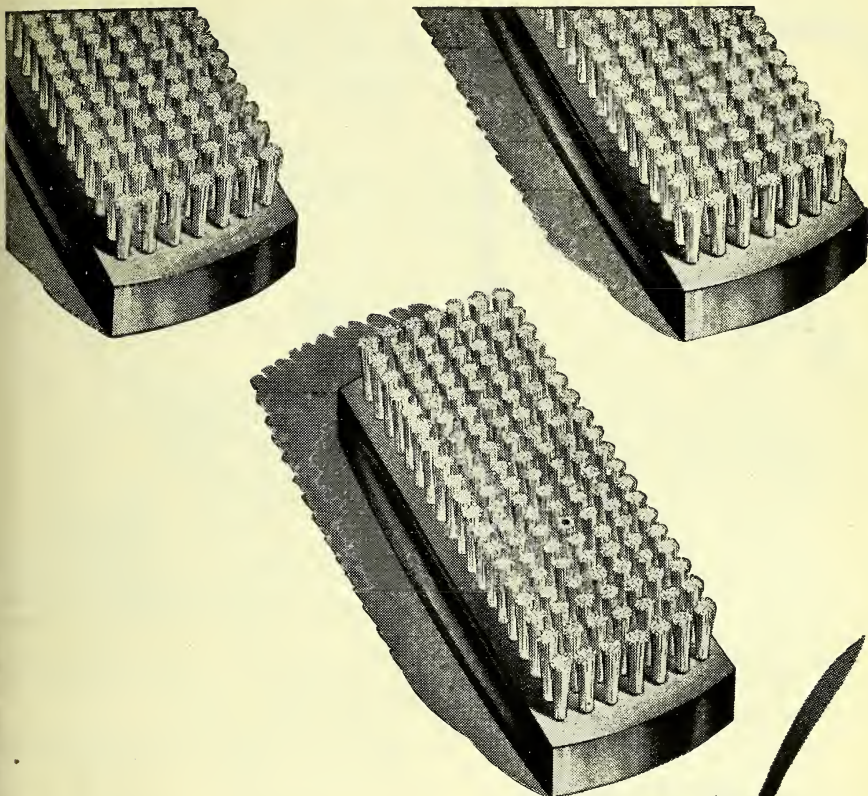
SUPPLIES AVAILABLE

**THE
Armour Laboratories**
(ARMOUR AND COMPANY LTD.)

LINDSEY STREET · LONDON · E.C.1

Telephone - CLERKENWELL 9011

Telegrams "ARMOSATA-PHONE," LONDON



**it's a better brush
if it's made with
NYLON**

IMPERIAL CHEMICAL INDUSTRIES LTD
LONDON, S.W.1



Always popular

There's no chance of Andrews being pushed into the background by not-quite-so-good imitations. You know when you put Andrews on your counter that it has the goodwill of the public and will always sell. Andrews is popular because

Its formula is ideal — and unique

It reaches the user in perfect condition

It is nationally advertised

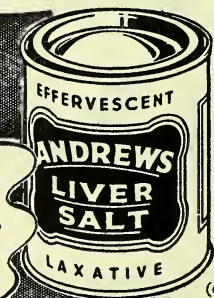
So stock up well with

ANDREWS

FOR

Inner Cleanliness

*Largest
sale in
the World*

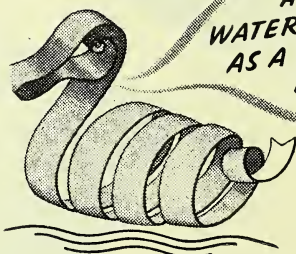


(GT.
18)

'Sleek'

TRADE MARK

PLASTIC ADHESIVE STRAPPING



- 'SLEEK' PLASTIC ADHESIVE STRAPPING is completely waterproof
- Its smooth, sleek surface resists dirt and germs. Stains can be washed off its surface easily.
- As it cannot fray, 'Sleek' stays neat and clean for days at a time.
- It is strong and extensible.
- Being very pliable it readily moulds itself to contours of joints.

'Sleek' is regularly advertised to the medical profession, veterinary surgeons, factories and industrial concerns.

Flesh colour only

1" x 5 yd. spools **Retail price 2/-**

1" x 2½ yd. " " " 1/3

'SLEEK' SALES MANUAL

All that you and your staff will want to know about 'Sleek' is in this handy booklet. Copies free on request, or from our representative. Attractive showcards are also available.



Herts Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.
Telephone: Welwyn Garden 3333 S21

'ZAC-ly right!

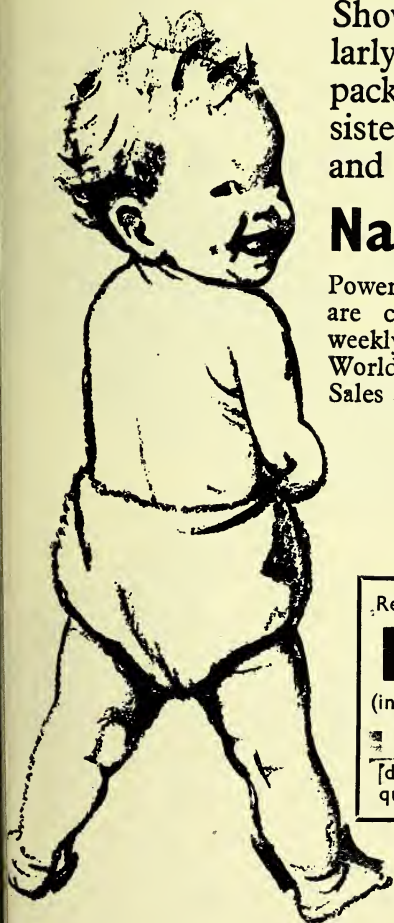
For Baby—For Mother—For You!

Right for Baby's Delicate Skin. Right for Mother who wants the Best at moderate price. And right for You because Zac Baby Cream is a first class 'repeater'!

Shows You excellent profit (particularly when ordered with other packed pharmaceuticals)! And is consistently backed by both National and Local advertising.

Nationally Advertised

Powerful advertisements for ZAC BABY CREAM are currently appearing in leading women's weekly and monthly magazines. News of the World, People, and a long list of Provincial Papers. Sales are certain. How are your stocks?



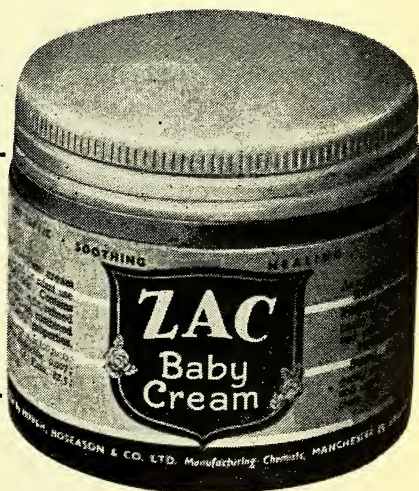
Retails at

1/6

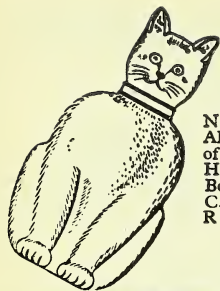
(inc. Tax)

2/6

[double
quantity]

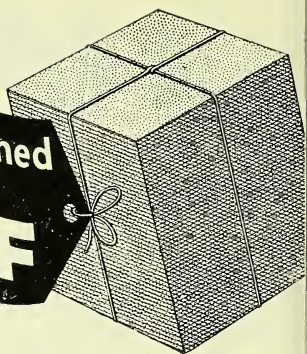


DOUGH, HOSEASON & CO. LTD. • ATLAS LABORATORIES • MANCHESTER, 19



NOAH'S
ARK series
of novelty
Hot Water
Bottles by
CANNON
RUBBER

Not to be opened
until
B.I.F.



Diver Bathing
Caps by
CANNON
RUBBER

For this year's BIF, Cannon Rubber are planning things. No one in the trade can afford to miss revolutionary developments that will be released exclusively by

CANNON RUBBER

makers of the world-famous 'MODERN' Teat.

Make sure you are first to see them at

STAND D20a BIF OLYMPIA MAY 8th — 195

**Over 1,000,000 babies
are customers for strained foods!**

They're young—but they're good customers. That's why Heinz Strained Foods are well worth promoting.

Heinz back this line with a major advertising campaign in women's magazines and national newspapers. Heinz are convinced that Strained Foods will prove a good, stable line for you—for sales are growing steadily.

Welfare Centres nowadays recommend strained foods for babies from 3-4 months onwards, and nearly eighty per cent. of mothers attend Welfare Centres.

HEINZ
STRAINED FOODS



57

Fifteen varieties: Broths, Soups and Vegetables, 6½d. Fruits, 7½d.

Every sale of

GENASPRIN

REGD. TRADE MARK

BRAND

gives YOU goodwill and profit

PRICES Subject to Parcel Discount		
SIZE	RETAIL	TRADE
10's	8d. each	4/4d. dozen
28's	1/6½d. each	10/0d. dozen
50's	2/5½d. each	16/0d. dozen
100's	4/3½d. each	28/0d. dozen

A GENATOSAN Product

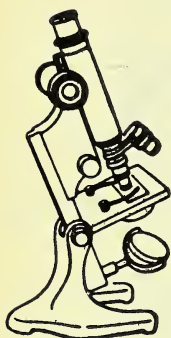
distributed by

BRITISH CHEMICALS & BIOLOGICALS LTD.

Loughborough, Leicestershire

Tel : Loughborough 2292





CONSTANT RESEARCH

Research, Standardisation, Activity, Purity—these important factors have built up the high reputation of "Oxoid" Medical Preparations.



Your orders, by letter, telephone or telegram are dealt with immediately and goods reach you in the shortest possible time.

Among the many "Oxoid" Medical Preparations are: Liver Extract, Hormones, Vitamins, etc.

OXO LIMITED

Medical Dept. THAMES HOUSE, QUEEN ST. PLACE.
LONDON, E.C.4

Telephone: CENTRAL 9781

THE LEADERS— GIBSON QUALITY

The Chemists' Standard!

NATIONAL FORMULARY 1949 PASTILLES & LOZENGES

including Krameria et Cocaine

Ample Supplies always available



also

GIBSON'S CHOCOLATE WORM CAKES

ROBERT GIBSON & SONS LTD.

MANCHESTER & LONDON

FERRIS & COMPANY, LTD.

BRISTOL.

MANUFACTURING AND
WHOLESALE CHEMISTS

The House In the West for all
Chemists' Supplies.

Send us your orders for prompt
and careful attention.

Regular Road Deliveries.

Telephone:
BRISTOL 21381

Telegrams:
FERRIS, BRISTOL



LEDERLE IN LONDON

Among the outstanding contributions to medical progress from the Lederle Laboratories are the introduction of aureomycin, teropterin, artane and the isolation and synthesis of folic acid. These are but some of the notable Lederle products, and the medical and scientific resources of the world-renowned Lederle organisation are now offered through Lederle in London.

'FOLVITE' FOLIC ACID

Where the urgent treatment of an anaemia calls for powerful action, physicians are prescribing 'FOLVITE' (Folic Acid Lederle) as a potent haematinic.

'Folvite' is a Registered Trade Mark.



Folic Acid Crystals

LEDERLE LABORATORIES
A Division of Cyanamid Products Ltd.

BRETENHAM HOUSE, LANCASTER PLACE, LONDON, W.C.2

**SOLD ONLY THROUGH
CHEMISTS . . .**

Lantigen
SERIES OF DISSOLVED ORAL VACCINES

The Lantigen Series of Dissolved Oral Vaccines introduced to this country two years ago, is now a firmly established and quick selling line. On the P.A.T.A. list, and nationally advertised, Lantigen is sold only through Chemists at one guinea per bottle (plus 4/8 P.T.). Descriptive leaflet and terms on request.

LANTIGEN 'A' for the Common Cold.

LANTIGEN 'B' for Catarrh and Bronchitis.

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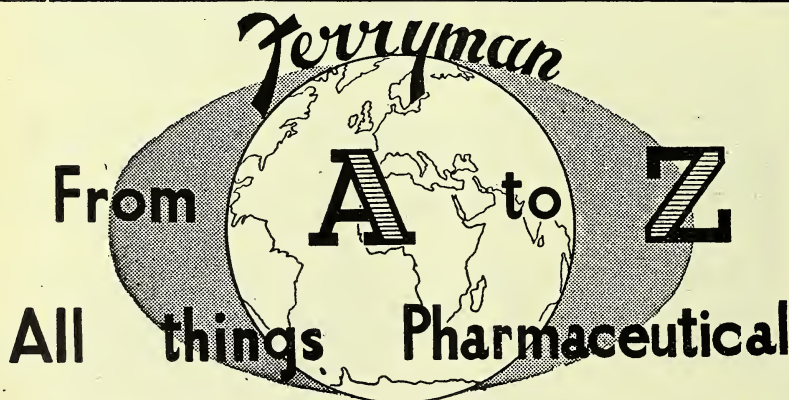
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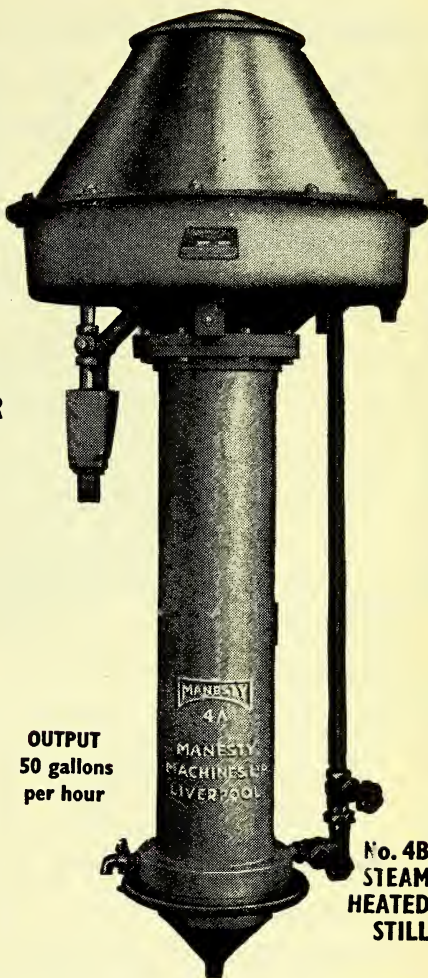
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Every customer for lipstick is a customer for **LIP-COTE**! **LIP-COTE**, colourless and quick drying, keeps lipstick in its proper place—it cannot smear and won't rub off. Nationally advertised. Send **NOW** for showcards, display material and details of attractive terms to:

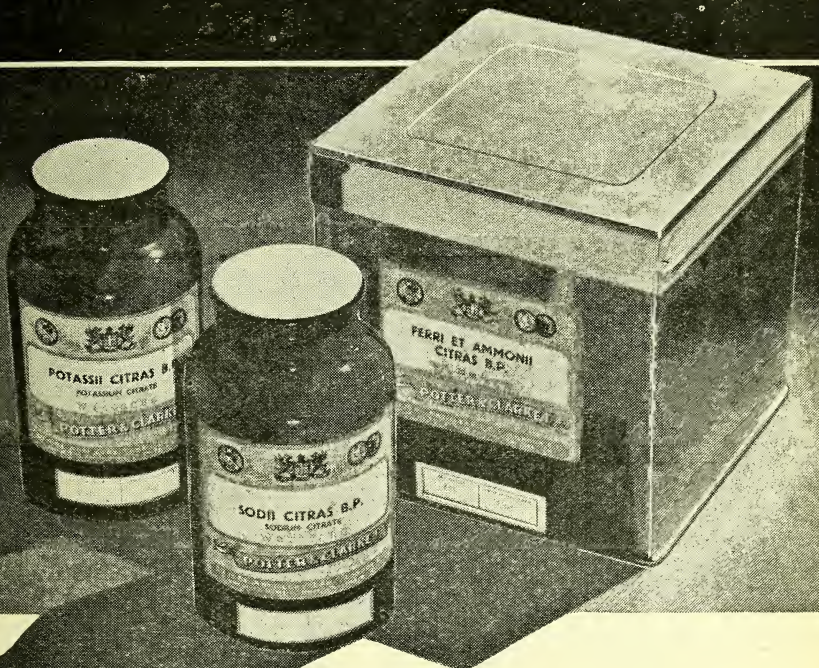
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News from **DALMAS** of Leicester

New waterproof adhesive strapping

Supplies increased to meet heavy demand

Demand is already heavy for Dalmas Strapping, a new plastic adhesive that has the great advantage of being absolutely *waterproof*. Because of this, supplies have been greatly increased.

Especially suitable for tiny cuts, sore places, torn finger nails, etc., Dalmas Strapping gives 100% protection against water, dirt, grease and acid. In particular, it is ideal wherever a bandage would be awkward. Because Dalmas Strapping stretches all ways, edges stick tight while allowing free movement of joints and muscles.

Dalmas Strapping is skin-coloured, hardly shows. Attractive sell-outs contain twelve 1/- spoons, each 1 inch by 1 yard, price 8/-; or 24 spoons, price 16/-. Special quantity discounts. Also in 3 yard lengths, and in 2" and 3" widths. **PLACE YOUR ORDER NOW!**

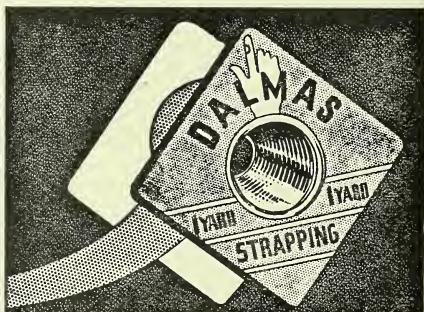
Dalmas First-Aid Dressings

Dalmas, a *waterproof* plastic dressing, provides a totally new method of protecting cuts and minor wounds. Like Dalmas Strapping, Dalmas First-Aid Dressings give complete protection against water, dirt, grease, acid—you can actually wash with them on! Edges stick tight, can't fray, can't catch in clothes. Dalmas lessens infection risk, promotes safe and easy healing.

Blue-and-white counter sell-outs containing three dozen 1/- boxes, price 8/- per dozen.



Your customers will look for this blue and white box.



Dalmas Strapping stretches all ways, is ideal for places where a bandage would be awkward

DALMAS BOIL PLASTERS

A new *waterproof* protective dressing for boils. Skin-coloured, hardly shows. Handy boxes, price 10d. retail, including tax.

DALMAS HEEL DRESSINGS

A *waterproof* dressing that is specially designed for sore and blistered heels. Handy boxes, price 1/- retail.

DALMAS FINGER-TIP DRESSINGS

A new *waterproof* adhesive protection for cracked, cut or sore finger-tips. Handy boxes, price 1/- retail.

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Easier to take

'Tabloid' 'Empirin' Compound with Codeine . . . widely prescribed for relief of pain when narcotics are undesirable . . . will in future be issued under the name 'CODEMPRIN.' Content of the four active ingredients is essentially unchanged, but the products themselves have been reduced in weight from 10.1 grains to 7.6 grains. 'CODEMPRIN' is very attractively packed, with cartons and labels matching those now used for 'Tabloid' Aspirin and 'Tabloid' 'Empirin' Compound. A bonus of 13 to the dozen will be given on orders of 3 dozen or over. List prices remain unaltered: bottle of 25, 2/3 plus 7d. tax; bottle of 100, 7/9 plus 1/11½ tax; dispensing pack of 500, 35/- tax free.

'CODEMPRIN' TRADE MARK

Acetylsalicylic Acid . . gr. 3½ Phenacetin . . gr. 2½ Caffeine . . gr. ½ Codeine Phosphate . . gr. ½

'CODEMPRIN'

TRADE MARK

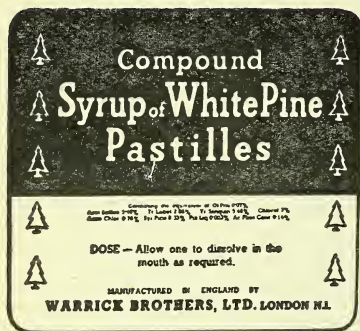
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TRADE MARK



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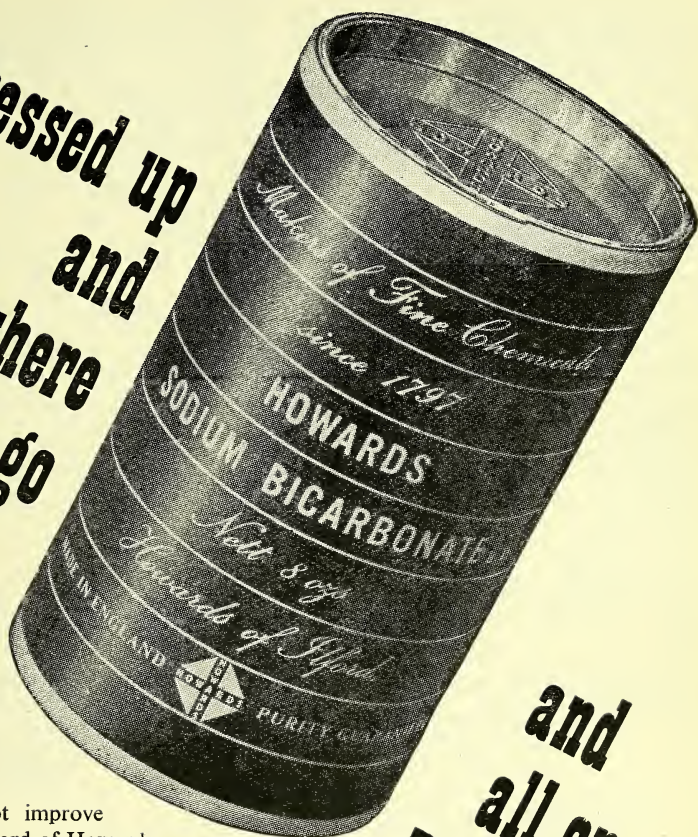
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Special Packings and Special Formulæ



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somewhere
to go**



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all on
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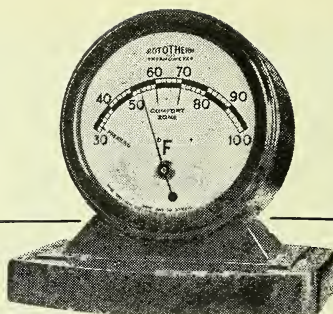
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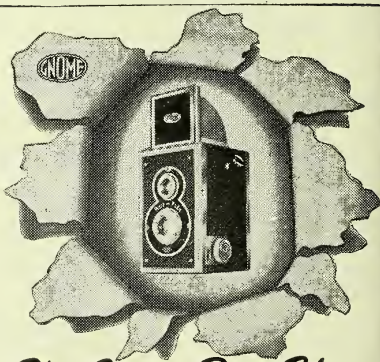


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Because

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on counter or in window, and let your customers know that you have these quality products ready at hand.

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Look to your stocks of Cystex and Mendaco and re-order in time so as not to disappoint any customer. Ample supplies now available—all orders executed promptly in full

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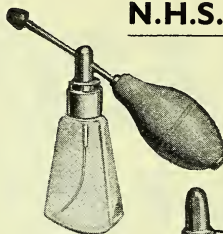
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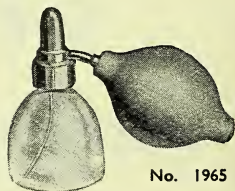
S. MURRAY & Co. Ltd

45 ST. PANCRAS WAY . . . LONDON . . . N.W.

N.H.S. Patterns



No. 1959



No. 1965

Entirely
British
Made

Supplies available from your
usual wholesaler . . .

Florine

2 PLY
GLAMAPAK

PETAL-SOFT
TISSUE
HANKIES



Absorbent Petal Soft, New fold tissues, Improved Folding for Boudoir, Bathroom or for travel use. Conveniently dispensed from specially constructed, attractively printed cartons, designed for immediate single selection of coloured tissue without contamination. Each box contains 100 single sheets 9" x 10" folded 4½" x 5". Obtainable in white only or supplied assorted tints and self colours



THE POCKET PACK

(shortly available)

Specially designed Dispenser Carton contains 2 regular sized tissues (12 pulls) white only, folded 2½" x 5" for handbag, school and travel use

★ **HANKIES** also supplied with embossed hem-stitched borders in Cellophane Pack. **CARRIES FULL PROFIT MARGIN FOR WHOLESALER AND RETAILER**

FREEDER BROTHERS PAPER MILLS

BRIMSDOWN, ENFIELD, MIDDLESEX

Telephone: Howard 1847 (5 lines).

Telegrams: Sylkocrepe, Enfield, Middlesex

See our Stand M18 at B.I.F. OLYMPIA

Local Chemist gets a Winter Sales Surprise



"I've been in the pharmacy business a good many years," says this suburban chemist, "and I must admit I'd always looked on Ibcil as a summer seller."

But now I find that Ibcil is selling *12 months in the year!* I've been well up on Ibcil sales during the summer, and I get high sales during the winter too. More and more housewives are realising that health protection is an all-year-round affair, and Ibcil advertising, educating people into the

regular use of Ibcil, is building up an increasing, regular sales volume. Believe me, it's well worth keeping a display container on your counter and in your window."

★ ★ ★ ★

Ibcil sales increased by over 250% during the past year! Thousands of chemists and druggists are making easy, regular, all-year-round sales cashing in on the powerful nation-wide Ibcil advertising by displaying Ibcil prominently. And when the new biggest-ever Ibcil advertising campaign is launched in spring, the demand for Ibcil will be greater still. Don't miss your share. Give Ibcil priority display in your shop.



HERE IT IS! Show this handy, attractive 1-dozen display carton on your counter, in your window, all the time — 52 weeks in the year. For the little space it takes up it will yield you handsome, regular profit. If you have difficulty in obtaining supplies, write to Ibbetson, Barking, Essex.

the NEWMAN 6 Point Labellers

COMPACT—Portable and sturdy.

ABSOLUTE PRECISION—Every label plumb centre.

SMOOTH RUNNING—Practically silent—bottles cannot jam. Safe and easy to operate.

MAXIMUM OUTPUT—2,400 bottles labelled every 60 minutes.

CONTINUOUS PERFORMANCE—if properly maintained.

GUARANTEED—Such is our confidence in the workmanship put into these machines that we give a year's guarantee.



NEWMAN

LABELLERS

Repeat Orders have been received from many leading manufacturers. A list of these will be sent on request. We shall be happy to arrange for demonstrations of actual users or at our factory.

D. TRAPOW & CO. LTD. - ENGINEERS 113 REGENTS PARK RD. CHALK FARM, LONDON, N.W.1
Phone: PRImrose 6688



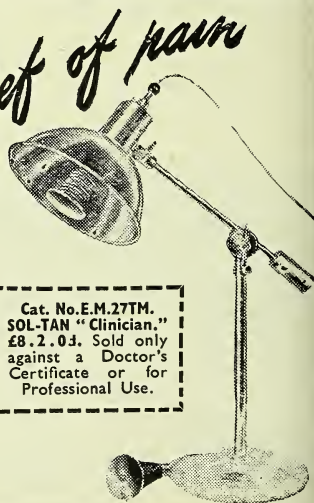
... Foremost in the relief of pain

Designed to conform to approved medical standard this High-Powered infra-Red and Radiant Heat Apparatus of Clinical intensity incorporates the professionally approved 500 Watt Long Wave Black Body Infra-Red Burner for deep-seated complaints and one 600 Watt Mixed Wave Burner for Radiant Heat Treatment. Beautifully finished in Cream Enamel and Chromium Plating, this easily adjustable Table Stand with universal movement enables any angle to be obtained without effort. Complete with 3-Core Flexible and Switch, Full instructions and Treatment Guide.

Can be supplied as a floor model on ball-bearing casters £10.10.0d. Catalogue No. E.M.27FM.

Our new Fully Illustrated Catalogue gladly sent on request.

"Sol-Tan" Marketed for Home and Export by



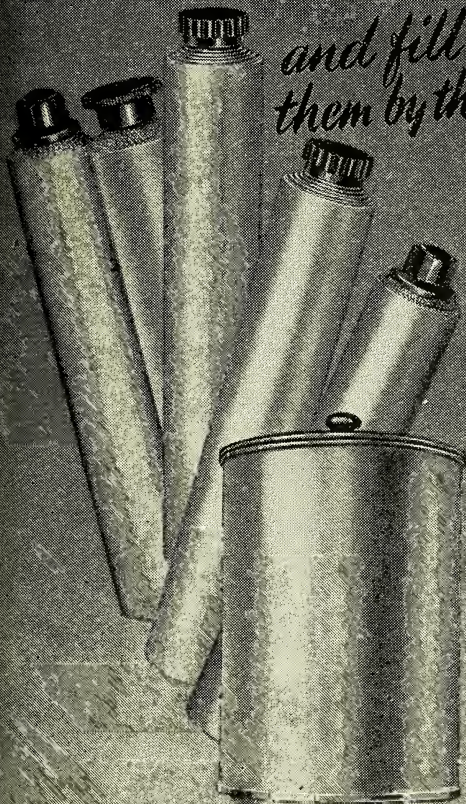
Cat. No. E.M.27TM.
SOL-TAN "Clinician,"
£8.2.0d. Sold only
against a Doctor's
Certificate or for
Professional Use.

THE LONDON COMMERCIAL ELECTRICAL STORES LTD.
20-23 CURSITOR STREET, E.C.4. • CHANCERY 6488/9

Use **U.M.P.** COLLAPSIBLE METAL TUBES

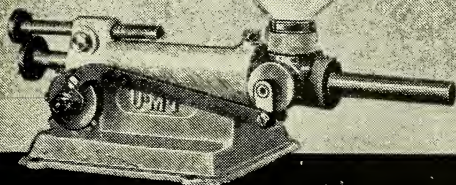
*and fill
them by the*

U.M.P. COLLAPSIBLE TUBE FILLING UNIT



This unit consists of Tube Filling Machine, Tube Closing Machine and Tube Crimping Machine. Please write for particulars and descriptive leaflet.

*We are also moulders
of PLASTICS to the Trade
by injection and
compression methods*



THE SIGN OF SERVICE
AND CO-OPERATION

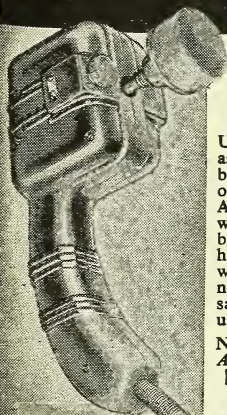
UNIVERSAL METAL PRODUCTS LTD.

SALFORD 6 LANCs. Telephone: PENDLETON 1631-2-3
LONDON OFFICE: ARGYLE HOUSE, 29/31, EUSTON ROAD, N.W.1.

PIFCO

Profit-Making

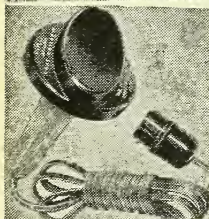
ELECTRICS



ELECTRIC VIBRATORY MASSAGER

Universally acknowledged as an aid to health and beauty and for alleviation of pain in many ailments. A high-grade Pifco product with smart ivory plastic body and finely balanced handgrip. Packed in carton, with Applicators for face, neck, body and scalp massage, and instructions for use.

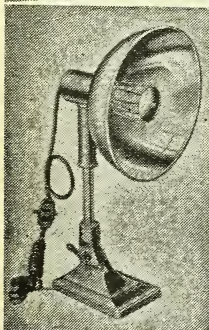
No. 1056. A.C. 200/250 v.
Also available for 100/120 v.
[Retail 59/6 plus tax 14/6.]



HEAT MASSAGER

A quick-selling, high-quality line at a popular price. Combines soothing and healing properties of heat with stimulation of massage. Black and ivory plastic.

No. 996. A.C./D.C.
200/250 v. Also available
for 100/120v.
[Retail 15/- plus tax 3/9.]



RADIANT-HEAT & INFRA-RED APPLIANCE

For application of Infra-Red and Radiant-Heat as used and recommended by medical profession, for quick relief from pain. Reflector revolves to any direction. Adjustable base. Finished in pastel shade, crackle finish.

No. 1020. A.C./D.C.
200/250 v. 450 watts.
Retail 59/6 plus tax 14/6.

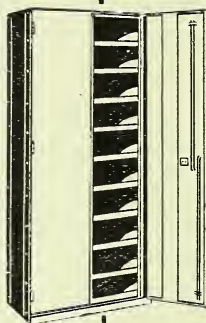
PIFCO Ltd.

PIFCO HOUSE, MANCHESTER, 4

STORAGE MADE SIMPLE

"SECO"

STEEL STORAGE EQUIPMENT
FOR FACTORIES & STORES



Seco Storage Equipment is suitable for, and adaptable to, all storage requirements giving maximum storage capacity to available floor space. A Standard Seco Unit is available to meet your every storage need. We are always pleased to submit designs and specifications to meet a customers particular requirements.

Send for list C.D.,

THE STEEL EQUIPMENT CO., LTD.

GREET'S GREEN, W. BROM., STAFFS

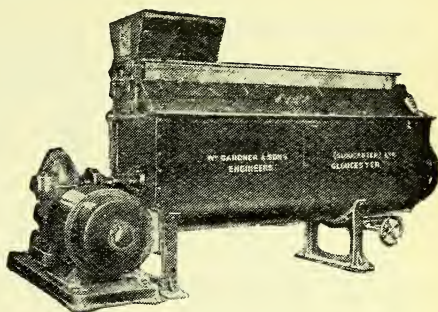
'Phone: 'Grams:
TIPton 1137-8-9 Equipit, West Bromwich

L.G.B.

WELL KNOWN FIRM OF
TOILET ROLL AND INTER-
LEAVED PACKET MANU-
FACTURERS (Factory
LONDON) WITH MODERN
PLANT WILL ACCEPT
ORDERS, FROM ESTAB-
LISHED FIRMS, AT VERY
KEEN PRICES FOR 6 oz.,
7 oz. and 8 oz. MEDICATED
TOILET ROLLS. TOILET
ROLLS CAN BE BANDED
WITH HIGHLY GLAZED
BANDS—2/3 COLOURS (at
no extra charge) TO CUS-
TOMERS OWN DESIGN.
ANY WORDING DESIRED
CAN BE PRINTED ON
EACH SHEET.

Box No. C. 5446

WHEN IT'S SIFTING & MIXING THEN IT'S GARDNERS



of Gloucester

These machines fully deserve their world-wide reputation for consistently producing accurate mixes and blends of fine powders in less time and with low power costs. Their exceptionally long lifetimes are borne out by the many machines that have been operating over fifty years, with little attention and free from breakdowns.

Gardner's knowledge and experience of nearly a century is at your disposal for designing special machines for the industry. Please write for catalogue of standard Sifters, Mixers, Sifter/Fixers, Dressers, etc., or state your requirements.

Wm. Gardner & Sons (Glos.) Ltd.

Bristol Road, Gloucester

Telephone : 21261

Telegrams : "Gardner, Gloucester".

LONDON :

19 Grays Inn Chambers, 20 High Holborn, W.C.1

Telephone : CHA 100ery 7347

DEATH to MOTHS

NEW LIFE FOR YOUR BUSINESS



STOCK PROMOL JUNIOR MOTH RINGS and cash in on the Moth menace. By incorporating Napthalene with Paradi-chlorbenzenium and DDT, they KILL as well as repel. The first two ingredients, powerful repellants, gradually evaporate, leaving the deadly DDT as a fine powder that KILLS BY CONTACT.

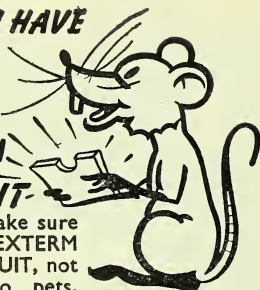
Displayed in their attractive red, white and blue carton, at 8 rings for 4d. They are BETTER-THAN-EVER SELLERS. Send your enquiries today :

PROMOL

Junior
MOTH RINGS

PROMEDICO PRODUCTS LTD.
22 TURLE ROAD, LONDON, N.4.

**IF YOU HAVE
RATS
GIVE
THEM A
BISCUIT**



... but make sure it's a VEXTERM RAT BISCUIT, not harmful to pets, human beings or farmyard stock, when used as directed, but death to rats and mice. Clean, safe and easy to handle. From Chemists, Ironmongers and Stores everywhere. Priced/6&5/9

VEXTERM

READY-BAITED

RAT BISCUITS

Agriculture and Fisheries Licence No. 10184

Manufactured by

BRITISH RODENT EXTERMINATOR CO. LTD.

PRATTS BOTTOM • FARNBOROUGH • KENT

Phone: FARNBOROUGH 849

**GET BACK
YOUR
EMPTY BOTTLES**

(MINISTRY OF HEALTH)

**WE HAVE LABEL SUPPLIES
IN STOCK**

AUTHORISED WORDING

ORDER NOW

TOWNSENDS

THE LABEL PRINTERS

EXETER

OINTMENT MILLS

Super Speedy Mill

IN REGULAR USE ALL OVER THE WORLD

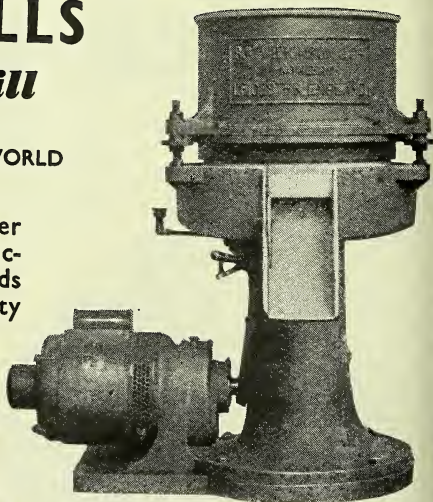
THIS Machine is a combined Mixer and Grinder and is used very successfully in the production of all kinds of Ointments, Tooth Pastes, Beauty Creams, Patent Foods, etc.

Each Machine incorporates Thirty Years' Accumulated Experience

S. W. WILKINSON & CO. LTD.,

*Chemical Engineers and Specialists in
Pharmaceutical Machinery*

WESTERN ROAD - LEICESTER



JEYPINE

means business!

**NEW PINE DISINFECTANT BACKED BY
JEYES' GOODWILL IS SELLING FAST—
BECAUSE IT KILLS GERMS FASTER!**

HERE are 4 outstanding facts that can mean worthwhile extra turnover, extra profit for you. 1. Jeypine is a Jeyes' product—backed by Jeyes' goodwill. 2. It kills more germs and kills them faster. 3. It is nationally advertised. 4. At 1/- for a big 6-oz. bottle it is first-class value for money. All this adds up to a real selling opportunity for you in a rapidly expanding market.

HERE'S STEADY NEW BUSINESS FOR YOU

Here is a repeat seller that brings you steady new business. Put Jeypine on display; recommend Jeypine for use in all cleaning water; help your customers to have fresher, healthier homes. Jeypine is non-poisonous, yet at least 5 times more powerful than carbolic acid—that is why it kills more germs and kills them faster. The fact that Jeypine is a Jeyes' product means a good deal to your customers!

HOW WE HELP YOU TO SELL JEYPINE

POWERFUL NATIONAL ADVERTISING—planned to build up use of Jeypine as a daily health habit.

COLOURFUL DISPLAY MATERIAL—to help you turn this advertising into regular extra cash in your till.

PLUS—the solid sales-making reputation of the House of Jeyes for making fine disinfectants.

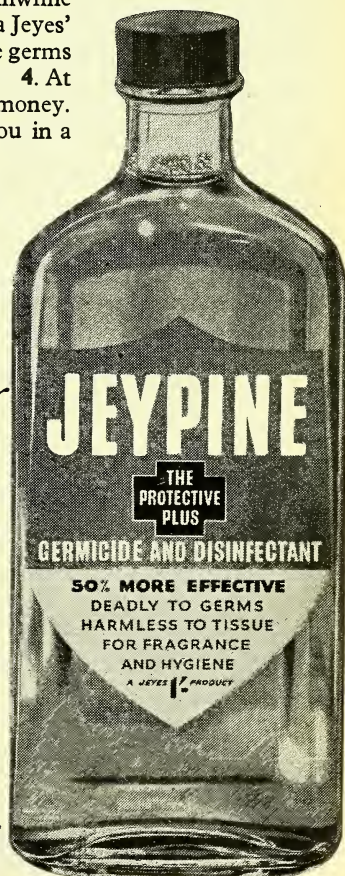
Jeypine means business—get your share now!

Include Jeypine in your composite orders for best terms.

JEYPINE



**BIG 6 OZ. BOTTLE RETAILS AT 1/-
(TRADE PRICE 9/- DOZ.)**





NOW
NATIONAL
ADVERTISING

PLUS
STRIKING FREE
DISPLAY MATERIAL

—a complete campaign means
Bigger Sales for You

VACCO is the Vacuum Flask with *real* sales support! National Advertising in Daily Mail, Daily Express, Daily Mirror, Daily Herald, News Chronicle, REACHES OVER 14,000,000 EVERY MONTH! Striking colour showcard and window streamer carries the national message right to your door. Enquiries to Vacco Sales Ltd., 55 Pall Mall, London, S.W.1

VACCO

The QUALITY Vacuum Flask
MADE IN ENGLAND

Link up and SELL!

Now available
to all
Chemists...



'Niagara' Brand Blackcurrant Syrup is manufactured under the auspices of the Ministry of Food and is rich in Vitamin C (contains not less than 20 mgms. Ascorbic Acid per fluid ounce).

'Niagara' Brand Blackcurrant Syrup is packed in sturdy but handsome bottles with attractively designed labels. The bottles are delivered to you in cartons containing one dozen.

Sole Makers:

BARNETT & FOSTER LTD.

NIAGARA WORKS, EAGLE WHARF ROAD, N.I.

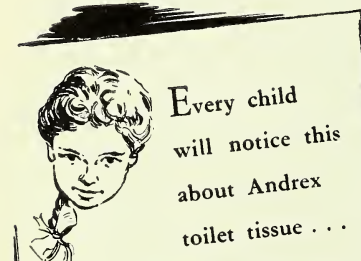
New advertisements in leading magazines

mean that

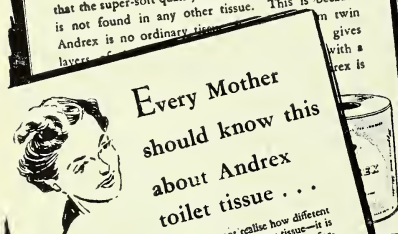
EVERY STOCKIST

can profit from

Andrex toilet tissues



Children have sensitive skins and they soon realize that the super-soft quality of Andrex is something that is not found in any other tissue. This is because Andrex is no ordinary tissue. It gives with a softness that is



Until you have tried ANDREX you cannot realize how different it is from other toilet tissues. Andrex is no ordinary tissue—it is composed of twin layers of the purest white cellulose rammed to the highest standard of hygiene and it has exceptional absorptive properties. Its feather-soft texture is a guarantee of complete freedom from irritation and for this reason it is especially kind to children of all ages and older people. It is wise to keep ANDREX in the house always. In case of any difficulty in obtaining supplies please ask your retailer to contact us.

ANDREX
SOFT AND GENTLE
TOILET TISSUE

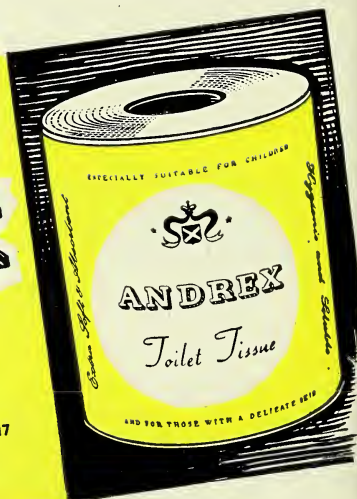
A product of St. Andrew Mills Ltd., London, E.17

ANDREX

SOFT AND GENTLE
TOILET TISSUE

WHOLESALE ONLY
ST. ANDREW MILLS LTD., WALTHAMSTOW, E.17
PHONE: LARKSWOOD 1014-5-6

Supplies of ANDREX are now better and demand will be stimulated by these new advertisements drawing attention to the merits of this unique super-soft tissue. The difference between Andrex and other tissues is so remarkable that once it is tried it is always asked for again. Soft, hygienic, soluble—there is nothing better for children and those with sensitive skins. It is going to pay you to stock and recommend Andrex. Send for a sample and you will agree that it is the purest, softest toilet tissue you have ever seen. Don't make it difficult for new customers to find Andrex—make sure that they see it displayed in your shop.



This will be a big seller!

ATTRACTIVE

EFFICIENT

3 1/2 rds.
actual size

3 1/2 rds.
actual size

**DIDIT
FLYPAPER**
IMPREGNATED WITH
D.D.T.
*SUSPEND FROM ARTIFICIAL LIGHTS,
NEAR WINDOWS, LARDERS ETC.
AND LEAVE UNDISTURBED.*

4 cards packed in
a viscose envelope

RETAIL PRICE
1/- per packet

Cost price 8/- per doz. packets.
10% special discount on minimum 3 doz. lots.

RODMILL CHEMICAL CO., LTD.

LIVERPOOL, 3



Introducing 'LAVENDER BLUE'



By permission of
Walt. Disney
Mickey Mouse Ltd.

Send today for the full
colour folder and New
Price List.



Only the most expensive oils and carefully selected ingredients are permitted to qualify for use in Elizabeth Saxton perfumes. Packed in display pieces giving real distinction and ensuring a quick and constant public demand.

ELIZABETH SAXTON LIMITED
NEW MILTON, HAMPSHIRE

Quality
bristle

packed to
Sell

Tek high quality bristle toothbrushes in their familiar eye-catching packs are backed by the biggest Tek advertising campaign for years...and the brilliant range of display material, from special display stands to neat single pack pedestals, combined with the Johnson & Johnson Window Display Service bring you profit and save you time and money.



Tek high quality bristle is specially selected by experts... it ensures correct care of teeth and gums — and it sells !

- ★ High Quality Bristle
- ★ Hygienic pack
- ★ Display pedestal
- ★ National advertising

NOTE : Tek Nylon and Tek Junior will continue to be sold in the familiar box packing.



50% Profit



**ABOVE SHOWSTAND
SUPPLIED
WITH EACH ORDER**

**Complete
Beauty Treatment
Retail 7/-
is shown on left**

*Send off your
50% Profit Order **NOW***

**to- DAE HEALTH LABORATORIES LTD.,
17, BERNERS STREET, LONDON, W.1.**

for **YOU!**

Special offer on VALCREMA —the new 2-way Beauty Treatment

A Valcrema 2-way Beauty Treatment consists of 1 jar Foundation Cream and 1 jar Skin-Youth (night cream) complete in decorative carton. It retails at 7/-. Each cream can be sold separately at 3/6d. per jar. (Prices include tax.)

On a minimum order for 6 Complete Treatments, or 6 jars of each cream, we offer 50% discount, on condition that you give a good display.

Trade terms for first order. Complete Treatments 24/- per doz. (p.t. 36/- per doz.) Separate jars 12/- per doz. (p.t. 18/- per doz.) Goods will be invoiced and despatched after the Budget.

POWERFUL, PERSUASIVE ADVERTISING WILL MAKE MILLIONS OF WOMEN WANT VALCREMA

The Valcrema advertising starts appearing in June and continues thereafter in —

**DAILY EXPRESS • DAILY MIRROR • PEOPLE
NEWS OF THE WORLD • PICTUREGOER
WOMAN • WOMAN'S OWN • WOMAN & HOME
WOMAN'S ILLUSTRATED • WOMAN'S WEEKLY
PEOPLE'S FRIEND • SUNDAY MAIL
SUNDAY POST • GLASGOW BULLETIN
GLASGOW DAILY RECORD
EDINBURGH EVENING DISPATCH**

Don't forget April 29!

—ONLY A COUPLE OF WEEKS TO GO FOR THE FLIT BONUS

Only a few more days to qualify for **YOUR FLIT** bonus.
Don't delay — send in your order today. Here, for the last time,
are the bonus terms.

On all orders for delivery not later than 29th April, 1950,
FLIT gives

10% bonus on all orders of over £10 at list prices.	
7½% " " " " " " £8 " " "	
5% " " " " " " £5 " " "	

Bonus parcels may be ordered direct or through your whole-
saler. Orders may include all sizes of FLIT products and
FLIT hand sprayers.
For 1950, there's the biggest ever advertising campaign
behind FLIT.

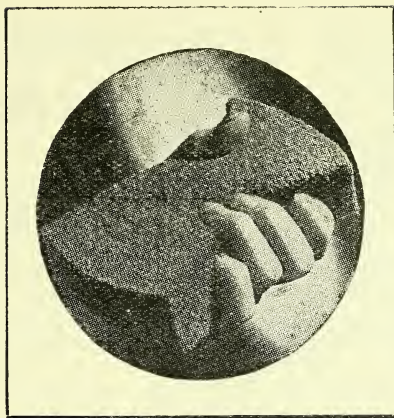
*And that's not all! There's a bright
new tin for the world-famed FLIT.
Nothing has been changed but the
tin.*

**SAME POST-WAR POWER—
SAME PRE-WAR PRICE**



STOCK FLIT-WORLD'S NO.1 INSECTICIDE
for quick turnover and big profits

STEMCO LIMITED, 123/132, ALBERT STREET, CAMDEN TOWN, N.W.1



what a lot of *SUPER SPONGINESS!*

Sponges for toilet. Sponges for the house.

Sponges that lap up water like a desert. Soft, silky, even-textured. Hard-wearing and hygienic.

In happy colours. E.R.C. know all the secrets of making super sponginess in long-lasting sponge rubber. Show "Zote" and "Zulu" sponges—

they will sell fast!

ZOTE and ZULU *Sponges*

Expanded Rubber Company Limited

ERC
SUBSIDIARY OF
THE BRITISH XYLONITE COMPANY LTD

675 Mitcham Road : Croydon

'PHONE: THORNTON HEATH 3622

WORKS: CROYDON & DUNDEE

**dirty work
to be done!**

THE BEST BARRIER PREPARATION

ROZALEX

IT STOPS DIRT FROM
GETTING INTO YOUR SKIN

ALSO ROZALEX OINTMENT

Rozalex Ltd., 10 Norfolk St., Manchester 2

**SAVE
TIME...**



Seal your packages
this QUICK, EASY WAY

An inch or two of self-adhesive *Transotape*, a flick of the finger . . . and your package is sealed cleanly, smartly and securely. *Transotape* mends, strengthens and protects. It's piller-proof. You can have it *printed*—and what a good advertisement! You can write on it. In colours to identify poisons and special drugs. Economical . . . you get 2,592 inches on a roll.

PAYS TO SELL*

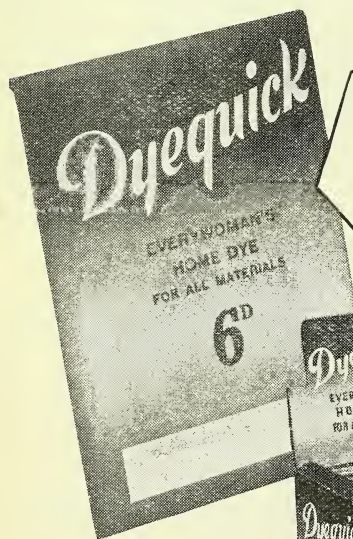
Ask about *Transotape Mini-rolls* for selling to your customers. Every home a potential user. In lovely colours, 180 inches to the roll.



puts EXTRA profit
on your turnover
Samples and prices gladly

John Gosheron & Co Ltd Gayford Road London W17
(Chemist Service Section)

* 17/49 Britain's Topographical Specialists since 1909



**Dyequick
IS COMING!**

Look out for this new
and beautifully presented
home dye—it's going
to be a big seller



Write for full-colour
illustrated folder to
DYEQUICK PRODUCTS LTD.,
122 Newgate Street, London, E.C.1.

**Dyequick
MEANS BUSINESS!**
the NEW home dye
with a brilliant future

SHERLEY'S always make Regular Customers!

To be sure of a fair share of the big, regular demand for the Sherley's preparations please order well ahead—for empty shelves can only mean disappointment. There is no treasure like a regular customer. He is the mainstay of profitable trading; a source of valuable good will. Adequate stocks of Sherley's Dog and Cat Medicines will keep the "regulars" happy and turn many a "casual" into a good friend.



SHERLEY'S DOG MEDICINES

F. SHERLEY & CO. LTD., 16/18 MARSHalsea ROAD, LONDON, S.E.1

WHEN YOUR CUSTOMERS ASK

FOR

TIMBER FLUID

THEY MEAN

RENTOKIL

• **NATIONALLY ADVERTISED**

Woodworms are active earlier this year so please hold adequate stocks to meet the increasing demand for RENTOKIL TIMBER FLUID, the tried and proved woodworm destroyer.

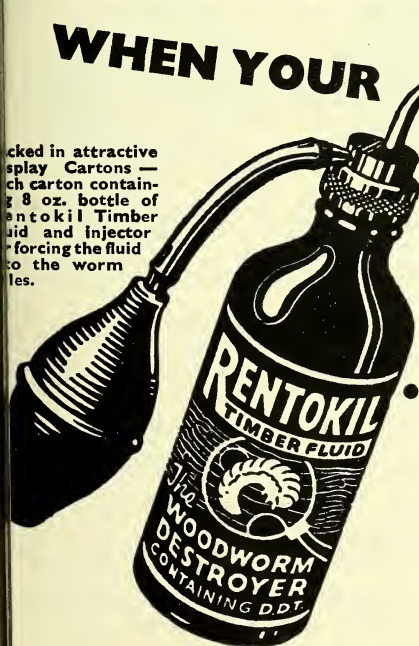
GENEROUS TRADE TERMS

on application

RENTOKIL LTD.

Dept. C.D. School Lane,
Fetcham, Leatherhead,
Surrey. Tel: Leatherhead 4021/2

packed in attractive display Cartons — each carton containing 8 oz. bottle of Rentokil Timber Fluid and injector forcing the fluid to the worm holes.



**POWERFUL
NEW THEME**

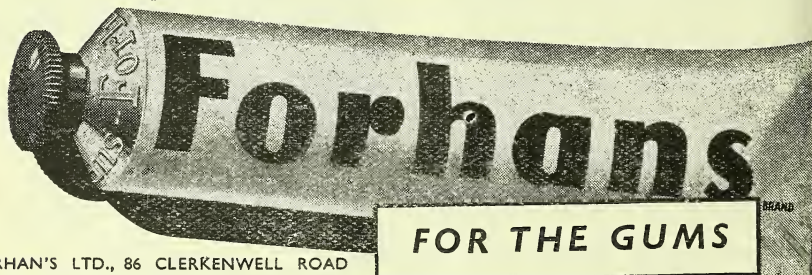
**LARGER
SPACES**

**MORE
INSERTIONS**

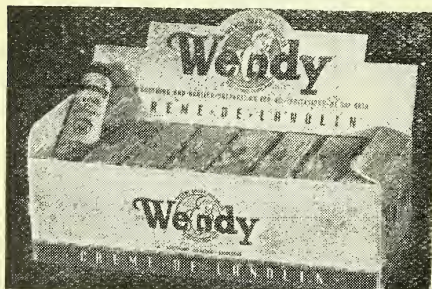
BIG NEW 1950 ADVERTISING FOR "FORHAN'S FOR THE GUMS"

Leading national newspapers are carrying Forhan's new and vigorous story all over the country. There will be more than 230,000,000 appearances—all to help your trade.

Anticipate a brisk demand; stock up with Forhan's now. Don't forget that Forhan's, with its generous trading terms, makes most money for you.



FORHAN'S LTD., 86 CLERKENWELL ROAD
LONDON, E.C.1



Wendy Brand CREME de LANOLIN

Created to meet the demand for a smooth easily applied Creamed Lanolin. Is available in handy Cartonned Tubes and attractive 2-dozen display outers. The tube has now been increased in size, the retail price remains the same.

Retail Selling Price
1/4½ inc. tax.

Obtainable from your wholesaler.



If any difficulty write direct to the Manufacturers
COLLEGE LABORATORIES LTD.
The Tower, Warmley, Bristol

London and Home Counties Distributors
H. B. DORLING LTD.
18 Churston Avenue, Upton Manor, London, E.13
Telephone: Grangewood 2324

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED AND SEAMLESS

SURGICAL BELTS

TRUSSES AND SUNDRIES

Over 50 years' service of
everything Surgical

SURGICAL HOSIERY CO. LTD.

Russell Street - NOTTINGHAM
Telephone No. 75903 Telegrams: Surgical Nottm

Here come the Brides!



selling **SNOWFIRE** for you

IN 3 GREAT ADVERTISING CAMPAIGNS



SNOWFIRE
FACE
POWDER



SNOWFIRE
VANISHING CREAM
FOUNDATION



SNOWFIRE
POWDER
CREAM

EVERY WOMAN IS INTERESTED IN BRIDES, and the three effective new Snowfire campaigns are sure to be read. The advertisements are appearing in 78 women's magazines and national newspapers with a total circulation of 99 millions! Your customers will read these advertisements—your sales of these Snowfire products will be bigger than ever before. Be sure your stocks can meet the coming demand.

A REMINDER — YOU ASKED FOR THESE . .

In tablet form

Now tax free



You and your customers have been asking us to produce "MOTHERSILL'S" in tablet form. NOW we are happy to answer your requests and present: **MOTHERSILL'S TABLETS** for the PREVENTION of TRAVEL SICKNESS by Sea, Air, Train or Motor in a handy travel pack containing

12 doses for 1/6; exempt from purchase tax

Take advantage of the holiday season by recommending and displaying "MOTHERSILL'S" TABLETS which will be supported by a press advertising campaign

Price per box of 12 Tablets	RETAIL	TRADE
	1/6	12/- per dozen

THE MOTHERSILL REMEDY CO. LTD., 92 Fleet Street, LONDON, E.C.
NEW YORK, MONTREAL AND PARIS

50 YEARS EXPERIENCE in the manufacture of TRAVEL REMEDIES

Order **NOW** from your usual Wholesaler

for
**TABLETS
PILLS
CAPSULES
LOZENGES &
SUPPOSITORIES**

*of consistent good quality
consult*

MATTHEWS & WILSON

LTD. (Est. 1894)

6-8 COLE STREET, LONDON, S.E.1

Phone : HOP 2147-8.

Grams : PILLEOLUM, SEDIST, LONDON.

BIG NEW SALES

VITALONG, amazing discovery from France, sweeps U.S.A. and is now in Britain — a profitable line with a sure-selling background!

GOOD PROFIT MARGIN

Retails at 3/9d a bottle (tax paid). Costs you only 1/6d (plus tax)

FREE COUNTER DISPLAYS

Smart, gaily packaged, eye catchers

ADVERTISEMENT BACKING

Advertisements booked in the women's press will start the demand. There's no time to lose. Get your share of the big Vitalong sales. Order **NOW**

VITALONG
FOR STRONG NAILS

Protects from splits and breaks

LABORATOIRES DU VITALONG LTD
47 Wilson Street London EC2

Dr Scholl's

AIDS TO FOOT COMFORT

Exemptions from Purchase Tax

We are pleased to announce that the following lines
are now exempt from Purchase Tax:—

	NEW PRICES	
	Wholesale per doz.	Retail
Scholl's ARSO PADS	5/3	8d. per pkt.
Scholl's ELT PADS	5/3	8d. per pkt.
Scholl's HIROPODY FELT	6/6	10d. per pkt.
Scholl's NIMAL WOOL	5/3	8d. per pkt.
Scholl's UNION REDUCER	18/-	2/6 each
Scholl's UNION PROTECTOR	42/-	5/6 each
Scholl's OE FLEX	18/-	2/6 each
Scholl's OE RIGHT	14/-	2/- each

The new wholesale and retail prices are shown above.

While covering in some degree the recent increases in
manufacturing costs on several of the above lines, we have
made every endeavour to maintain fully the profit of the
chemist.

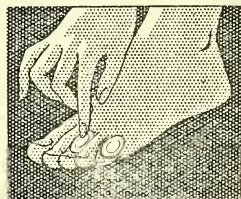
THE SCHOLL MFG CO LTD
182-204 St John St London E.C.1

Telephone:

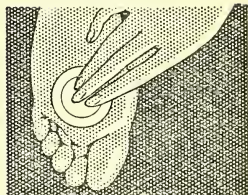
Telegrams:

ERKENWELL 3636 (6 LINES)

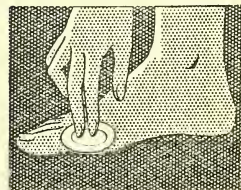
SCHOPEDIC LONDON



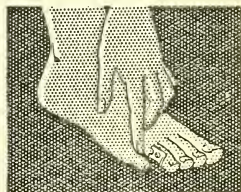
Size for CORNS



Size for CALLOUSES

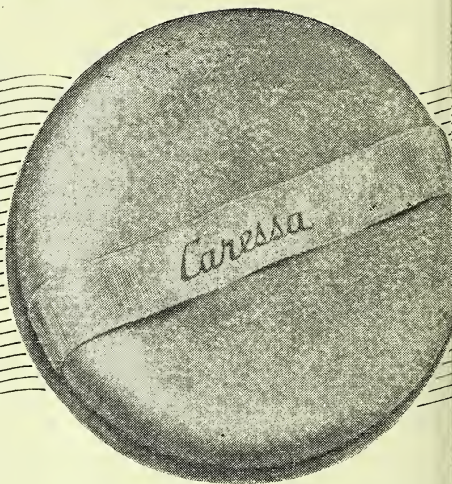


Size for BUNIONS



Size for SOFT CORNS

Acknowledged to be the finest
velour puff, made from deep
pile soft silky velour, and pre-
sented in an attractive pack



Caressa

CARESSA LIMITED, 527/533, HARROW ROAD, LONDON, W.10.

Dr. J. Collis Browne's Chlorodyne
and
The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's
CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

Sole Proprietors:

J. T. DAVENPORT LTD.
UNION ST., LONDON, S.E.1

P.A.T.A.

SPECIAL OFFER...

5%

extra discount

ON ORDERS FOR

Elastocrepe
TRADE MARK

BANDAGES

and **WRIST & ANKLE STRAPS**

value £3 or over at

Trade Prices



**Profit of 36 $\frac{2}{3}$ % on sales
— 55% on cost!**

**It is now possible to
supply all requirements of
Elastocrepe PROMPTLY!**

Here is a grand opportunity for you to bring your stocks of Elastocrepe to a good level. These smooth-surface cotton crepe bandages and straps possess unique qualities of compression. They are flesh-coloured and can be washed repeatedly—washing actually renews their elasticity. Elastocrepe Bandages are available in 2 $\frac{1}{2}$ ", 3" and 4" widths. Your wholesaler can supply your needs immediately.

T. J. SMITH & NEPHEW LIMITED, HULL

Lemon Juice 38.0%
w/v
Sucrose 23.7%
w/v
Liquid Glucose BP 28%
w/v (equivalent to Dex-
trose (Monohydrate)
10.5 %w/v,
Barley (Sol. Extract)
from 7.4% w/v

Plus flavouring and
permitted preservative

*As an Antacid
or in febrile conditions
Invalid
Lembar
justifies the highest
professional
recommendation*

*Obtainable from Wholesale Chemists or from Rayner & Co. Ltd.
RAYNER AND COMPANY LIMITED, LONDON, N.18*

CurAcho
(CURE-ACHE-O)

THE OIL-LESS EMBROCACTION

is an embrocation you can recommend with every confidence to your customers for pains of Rheumatic origin, sprains, etc. Curacho is a great favourite with the ladies as it is oil-less, non-greasy and stainless and has a clean and refreshing odour.

Curacho is a SPIRIT Embrocation.

Retail prices 3 oz. 2/3 6 oz. 3/9

Also Veterinary Grade supplied.

PATA

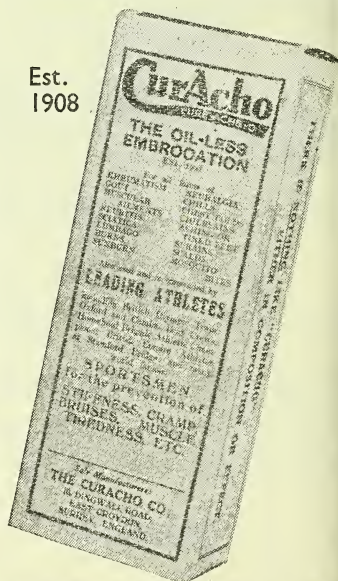
From your Wholesaler or
direct from Sole Manufacturers

The Curacho Company

10 Dingwall Road, East Croydon, Surrey

Phone : CROYDON 3226

Est.
1908



The demand for **Silvikrin Lotion** **with Oil**



SEE HOW IT GROWS

An excellent product—a big new market—straightforward, compelling and consistent advertising. These are the factors which have built Silvikrin Lotion with Oil into a big seller in record time. Reap the full benefit of this new business by making a special display of Silvikrin Lotion with Oil NOW. The well-known and pack makes a striking eye-catcher and increased demand is sure to follow.

Silvikrin **Lotion with Oil**



**“Linking
up with
the new
EUCRYL
campaign
is good
business”**

**— and brings
bigger sales**

All over the country, chemists are finding that the new Eucryl campaign is bringing them new customers—and a Eucryl customer is a customer for good. That's why it's wise to give Eucryl a good showing. Let people *know* you sell Eucryl and get the full benefit of Eucryl's bigger advertising scheme. Send to Eucryl Ltd., Southampton, for details of free Eucryl Sales Aids.

EUCRYL

**The Largest-Selling
Tooth Powder in Britain**

T.6

EMPROT

Based on MILK and
CEREAL products

**THE ATHLETES'
FOOD DRINK**

SAMPLE ON REQUEST

1lb.	1/10
1lb.	3/6

Kings of Kingsbury (Sales) Ltd
1 London Bridge, London S.E.
Telephone: HOP 2004



POWDER

5% D.D.T. in handy in-
sufflators ready for im-
mediate use.

The powder is blown
just where it is required.

Packed in 3 doz. outers.

Retail 9d. ea. 6/- per doz.
3 doz. lots 5/10 per doz.

LIQUID

5% D.D.T. 5% I
thrum Extractive

In 10 oz. bottles att
ively labelled in Buff
Maroon.

Retail 2/3 ea. 18/- per
3 doz. lots. 17/6 per

SPECIAL PRICES FOR QUANTITIES

BROOK, PARKER & CO. LTD

Manufacturing Chemists

B R A D F O R D

TELEPHONE . . . BRADFORD 282

more and more mothers

ARE BUYING THESE TWIN BABY AIDS

together



Yes — more and more mothers have acquired the habit of buying Johnson's Baby Lotion and Baby Powder *together*. So, when you display them together even more mothers are reminded of these baby essentials.

New Baby Lotion and Baby Powder display material is now ready for your windows and your counters. They are wonderful attention-getters to help stimulate sales. Ask our representatives for a supply. Remember, Johnson's Baby Lotion and Baby Powder are the twin indispensables for mothers — displayed together, you can make more sales instead of one.

Johnson's
Trade Mark

BABY POWDER

for after the bath

BABY LOTION

for changing nappies

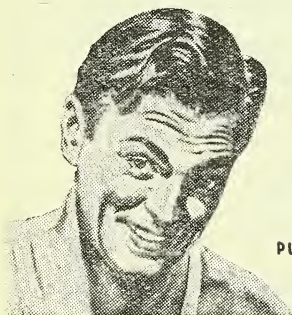
I took **VULFIX** straight on the chin!

See Our Stand No. K1
At the B.I.F. (1st Floor)

And I kept it there, whipping up a
whisker wilting lather in a wink!

VULFIX "SERVICE" obtainable
through all wholesalers

Retail at 3/11, 5/11, 6/9, 8/6 each



VULFIX "Service
PURE BRISTLE *Shaving* BRUSH

THE BRUSH WITH THE 2 YEARS GUARANTEED
PROGRESS SHAVING BRUSH Co., Ltd.

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THE PERFECTION OF HAIR PROTECTION



The world-famous Shaw range of hair nets provides perfect hair protection for the very special occasion as well as for everyday use. Elegant and virtually invisible, they are at the same time strong, durable and snugly fitting. Attractively carded or in full-colour envelopes.

Makers of
"Madonna," "Venus,"
"Lion," "Surefit,"
"Unedea" and "Radio"
Hair Nets.

Wholesale and Export
only.

ROBERT SHAW & CO. LTD., Nottingham
London Office: Condor House, St. Paul's Churchyard, E.C.4

CORALIE'S HEALTHINALE is recognised as the Housewife's answer to breaking nails and bad cuticle. The attractive display carton of 1 doz. 24s, from your Wholesaler or direct, makes an instant appeal to the who "suffer" from nail troubles.

HAND & NAIL INSTITUTE
35 OLD BOND STREET Tel: REG 75

MOSANS PESSARIES

15/- per doz. boxes
any wholesaler

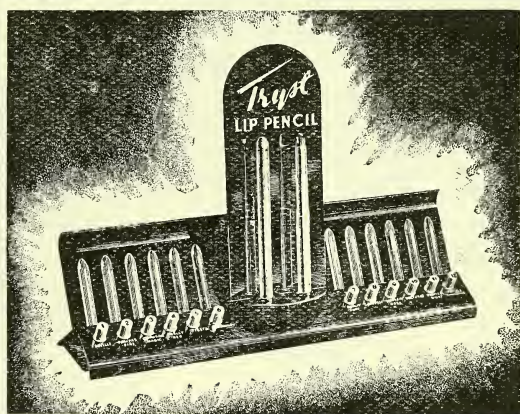
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**WE GUARANTEE QUALITY
WITH QUICK SERVICE**

FOTOGRAFIA (Streatham) LTD.
17 THRLE ROAD, S.W.16. STR. 7531
Members of W.P.F.A. and P.D.A.

working for you

on your shop counter to sell TRYST Lip Pencils with the 'Easychange' Refills to your customers who will be eager to try and buy after testing the twelve actual Lipsticks in the hygienic tester.



Throughout 1950, millions of women—your customers—will be reading in their magazines the TRYST advertisements, in each of which this Free Tester is featured urging them to try TRYST for themselves at their local chemist—your shop. Stock TRYST—Display TRYST—SELLS ON TEST. Our Salesman will tell you about our generous bonus offer which applies to all TRYST Cosmetics.

COLOUR VIEW LIPSTICK 5/9 . . REFILL 3/-
GOLDEN STANDARD LIPSTICK 4/9 . . REFILL 2/6
FACE POWDER 3/4 ALL INC. TAX.

Tryst



PROPELLING
LIP PENCIL 4/9

with the
'EASYCHANGE'
REFILL . . . 2/6

TRYST COSMETICS LTD.
CARLISLE ROAD, LONDON, N.W.9

Tryst
ADVERTISING
WOMAN

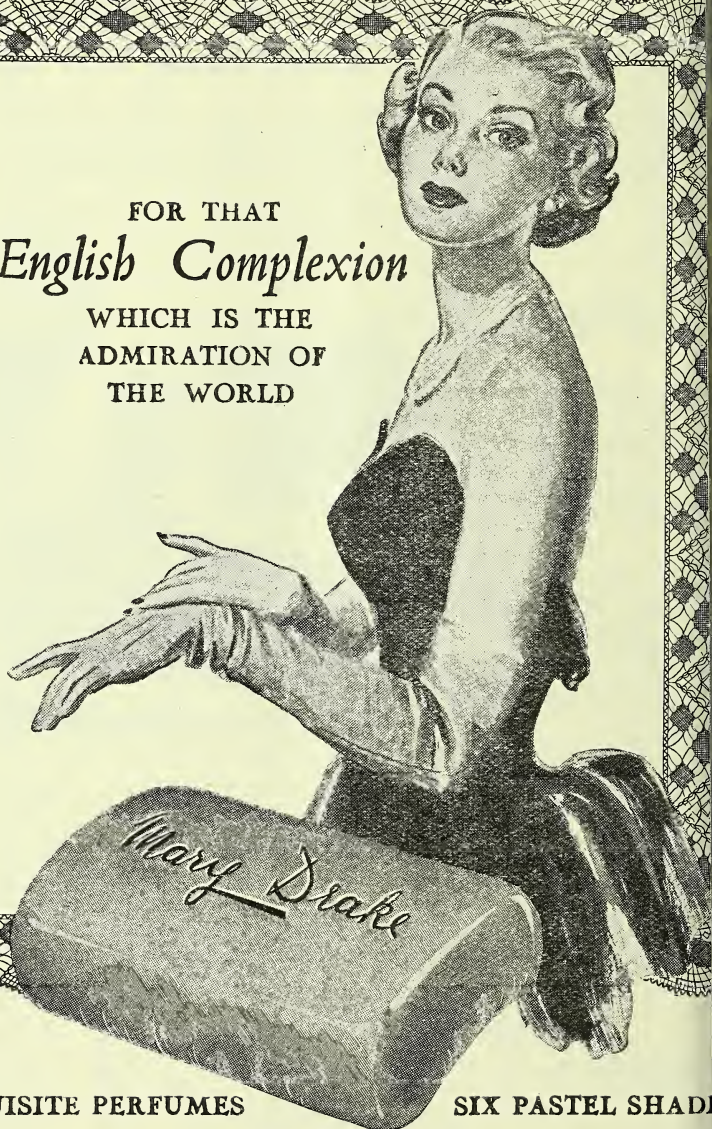
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FOR THAT
English Complexion
WHICH IS THE
ADMIRATION OF
THE WORLD



SIX EXQUISITE PERFUMES

SIX PASTEL SHAD

Bouquet • Magnolia • Bon-Bon • Jade • Honeysuckle • Sandalwood

3 oz. TABLET 1 1/3 (10/- doz. inc. tax).

6 oz. TABLET 2 1/6 (20/- doz. inc. tax)

Mary Drake Ltd. Also Works. Barking. Essex.

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FINE CHEMICALS

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SULPHATE • BISULPHATE
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A DIVISION OF BRITISH CHEMICALS & BIOLOGICALS LTD.

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LUTOCYCLIN

(PROGESTERONE and ETHISTERONE)

Available in forms to meet all requirements

FORM

DURATION OF EFFECT

**AMPOULES 1 c.cm. 2, 5, 10
and 25 mg.**

Several DAYS

(Progesterone B.P. in oily solution)

'CRYSTULES' 50 mg.

Several WEEKS

(Progesterone B.P. crystals
in aqueous suspension)

IMPLANTS 100 mg.

Several MONTHS

(Progesterone B.P.)

**'LINGUETS' 5, 10 and
25 mg. (Ethisterone B.P.)**

**For MAINTENANCE
Therapy**

Literature available on request

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